

FIG. 1

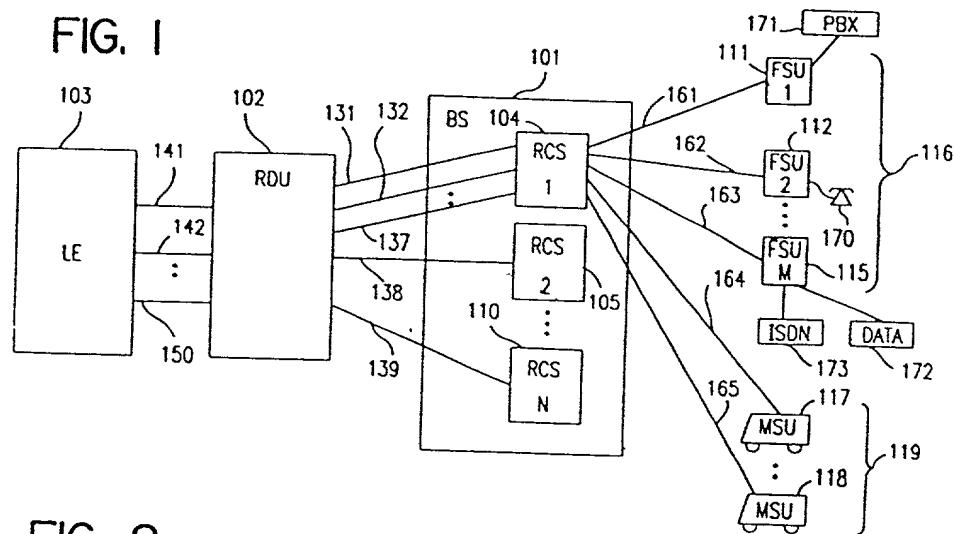


FIG. 2a

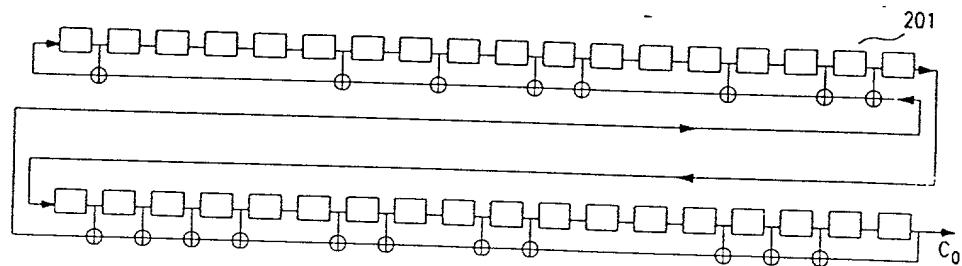


FIG. 2c

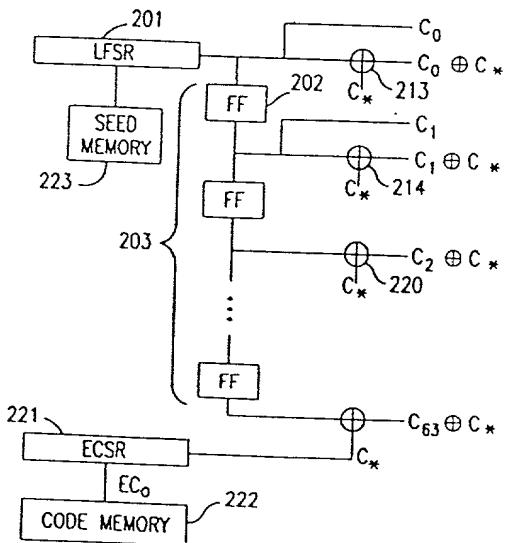


FIG. 2b

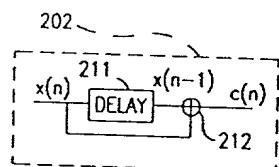
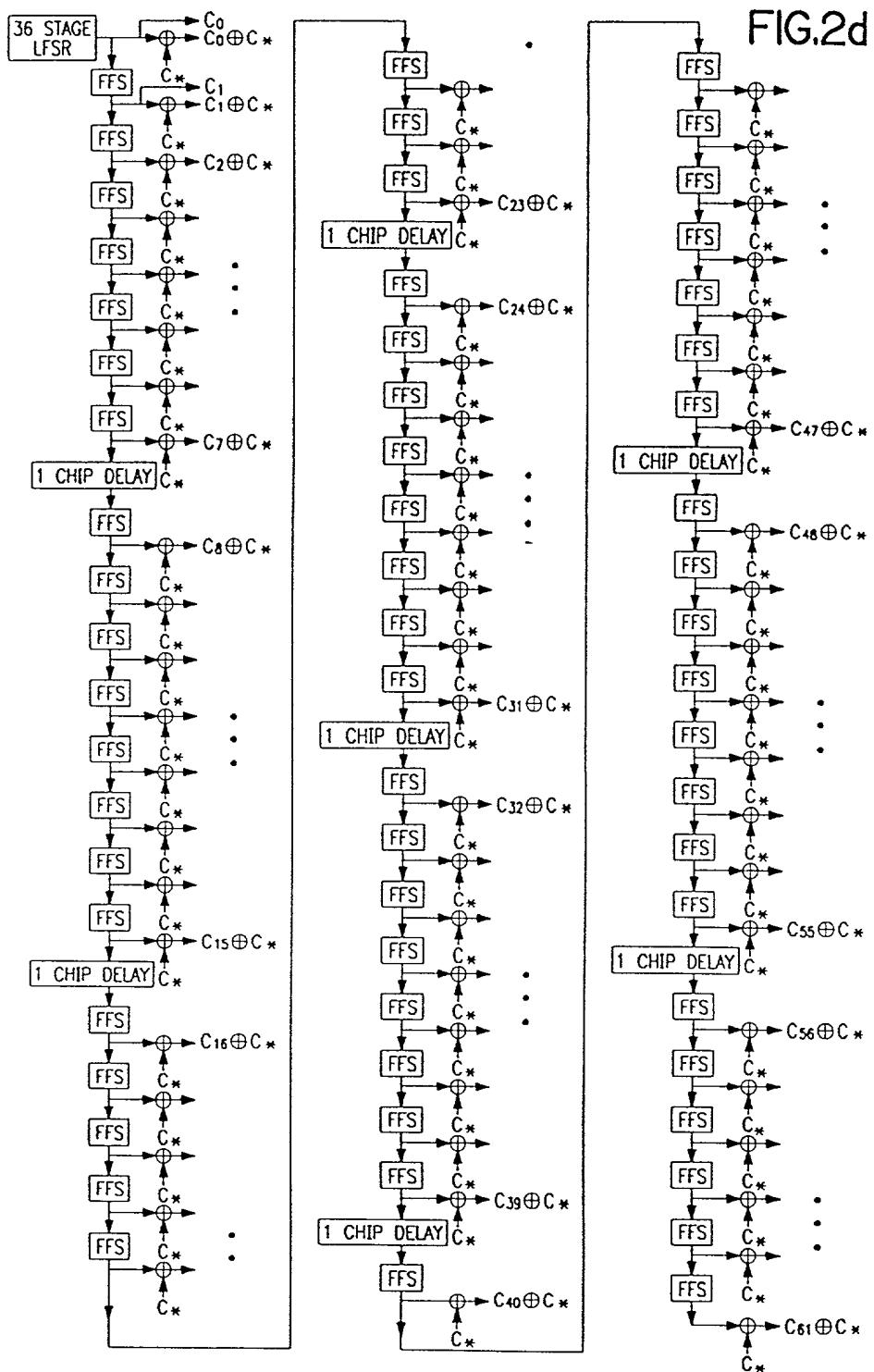


FIG.2d



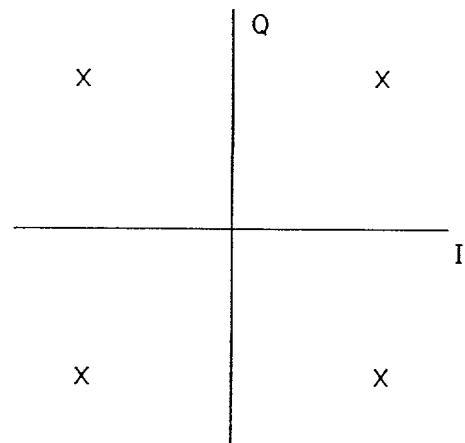


FIG. 3a

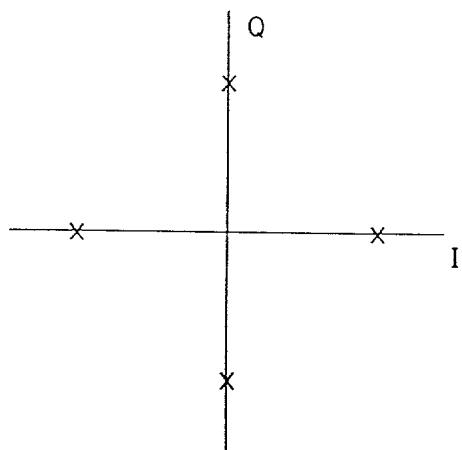


FIG. 3b

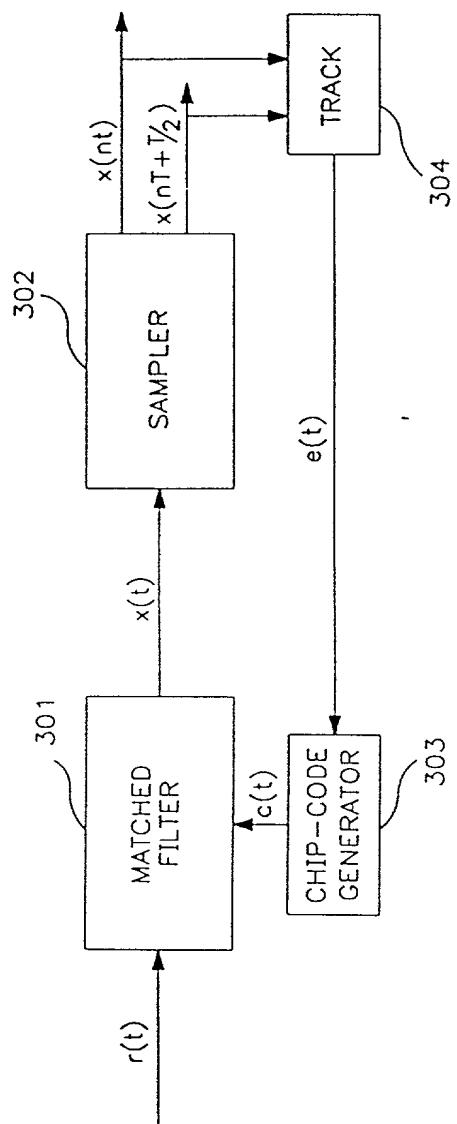


FIG. 3C

FIG. 4

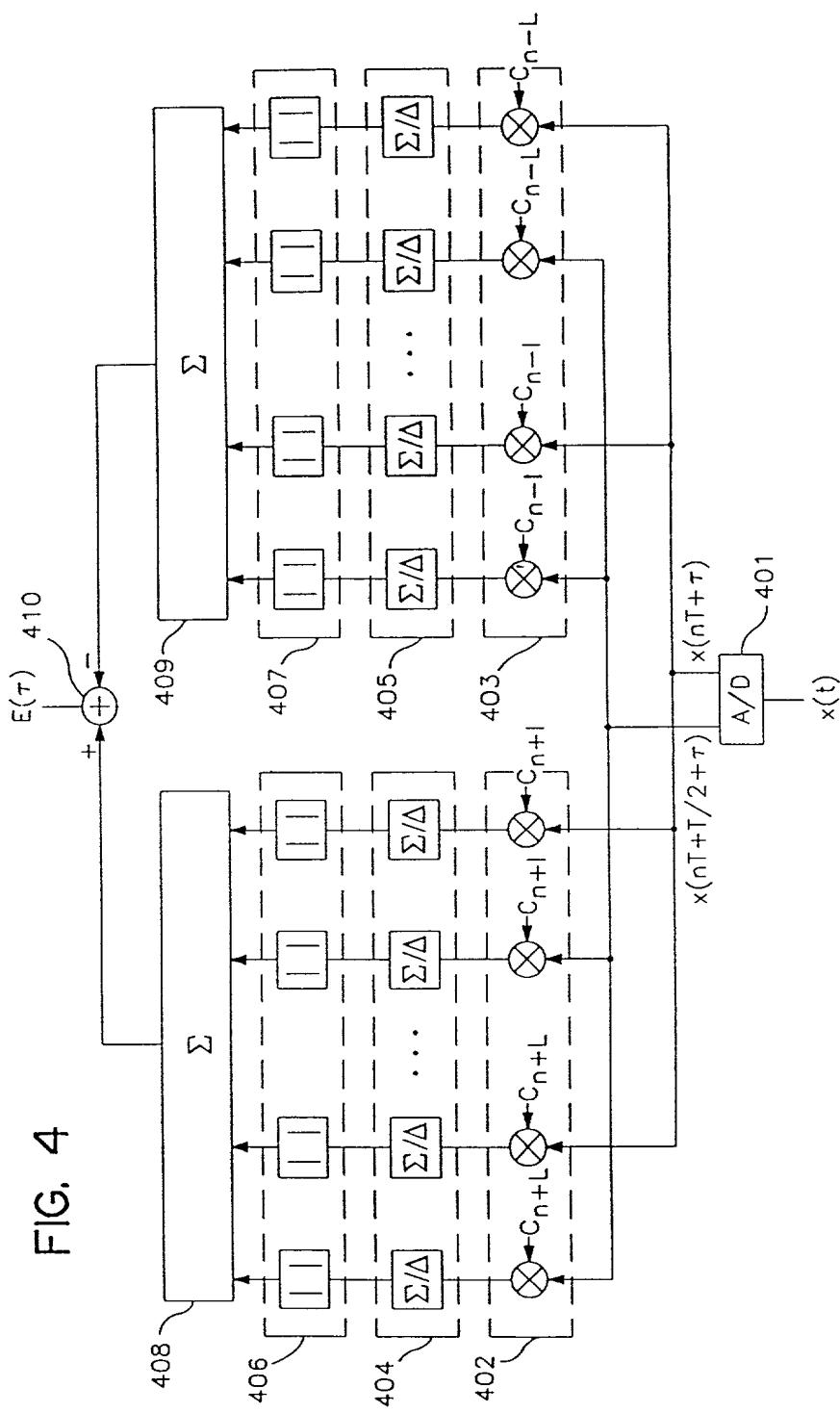


FIG. 5a

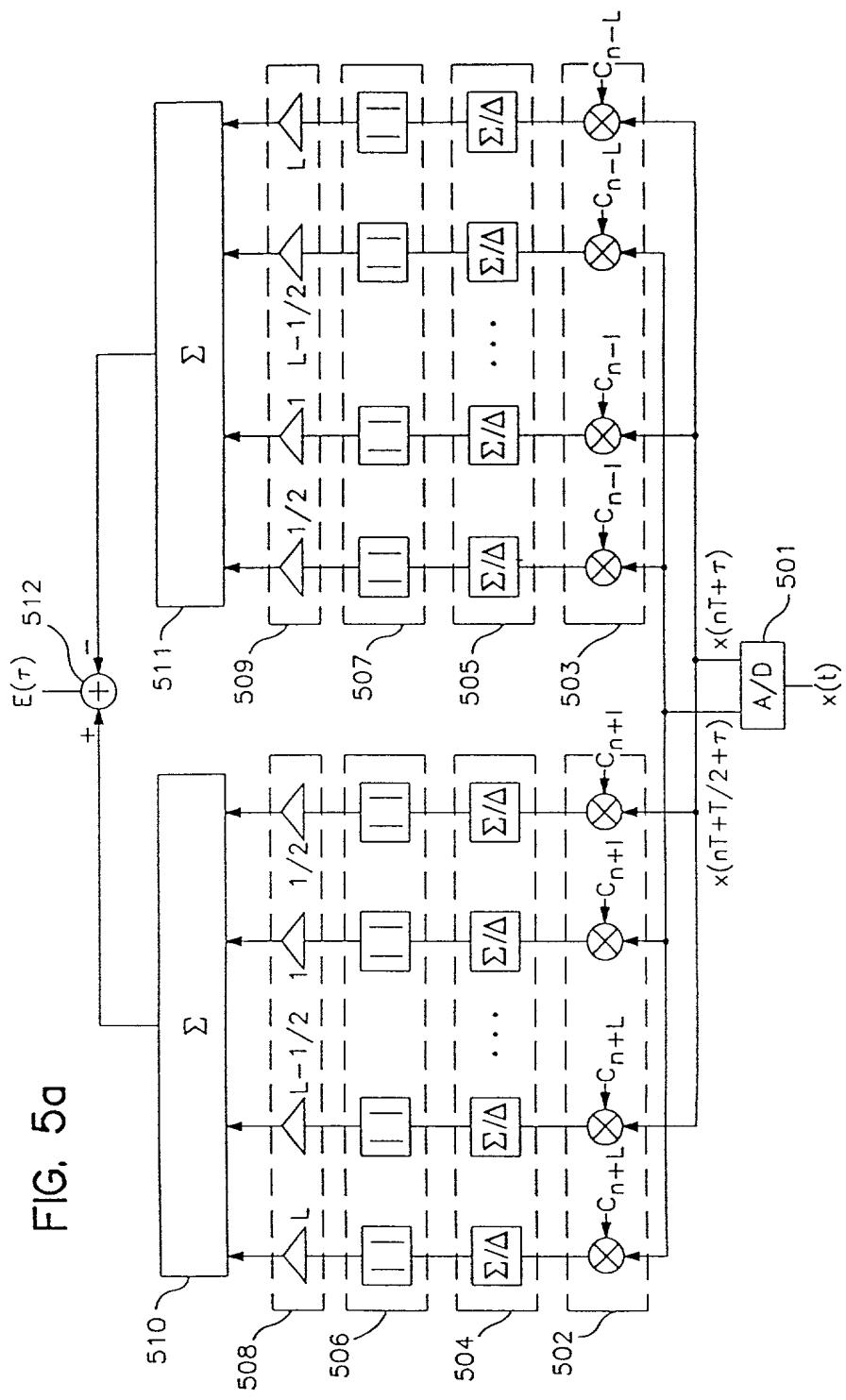
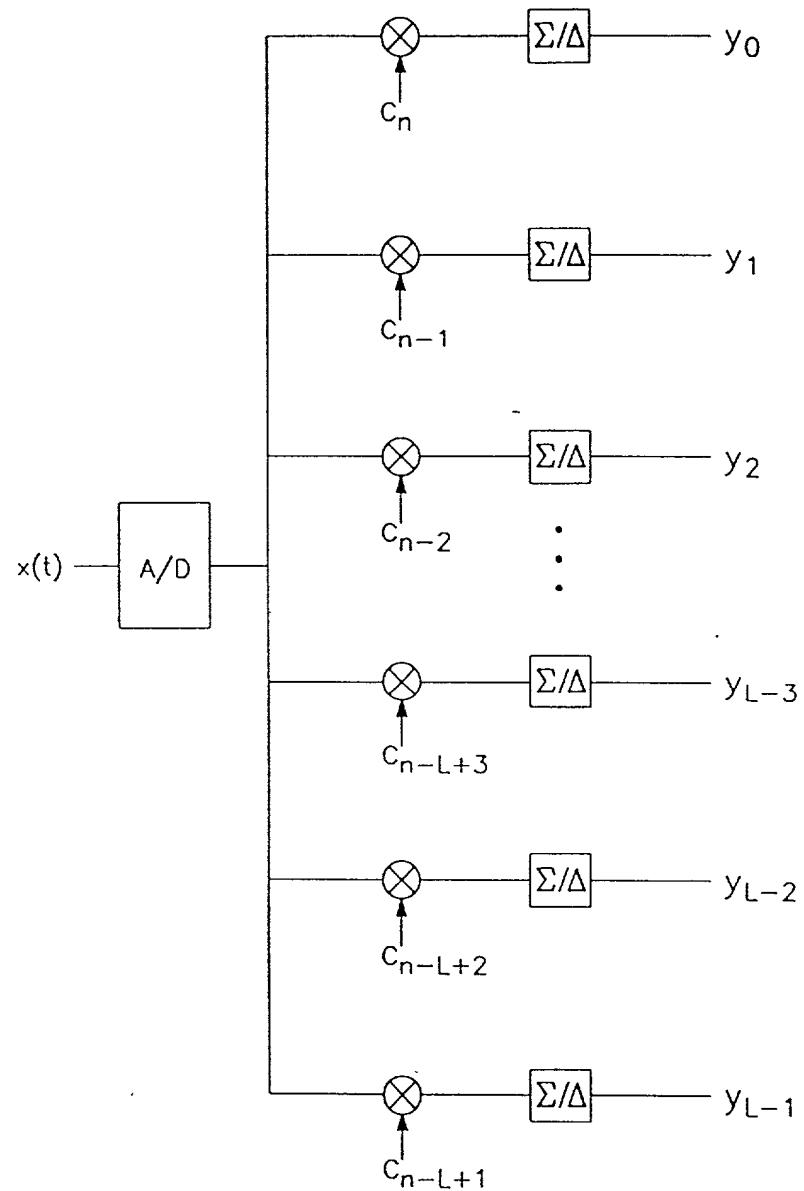


FIG. 5b



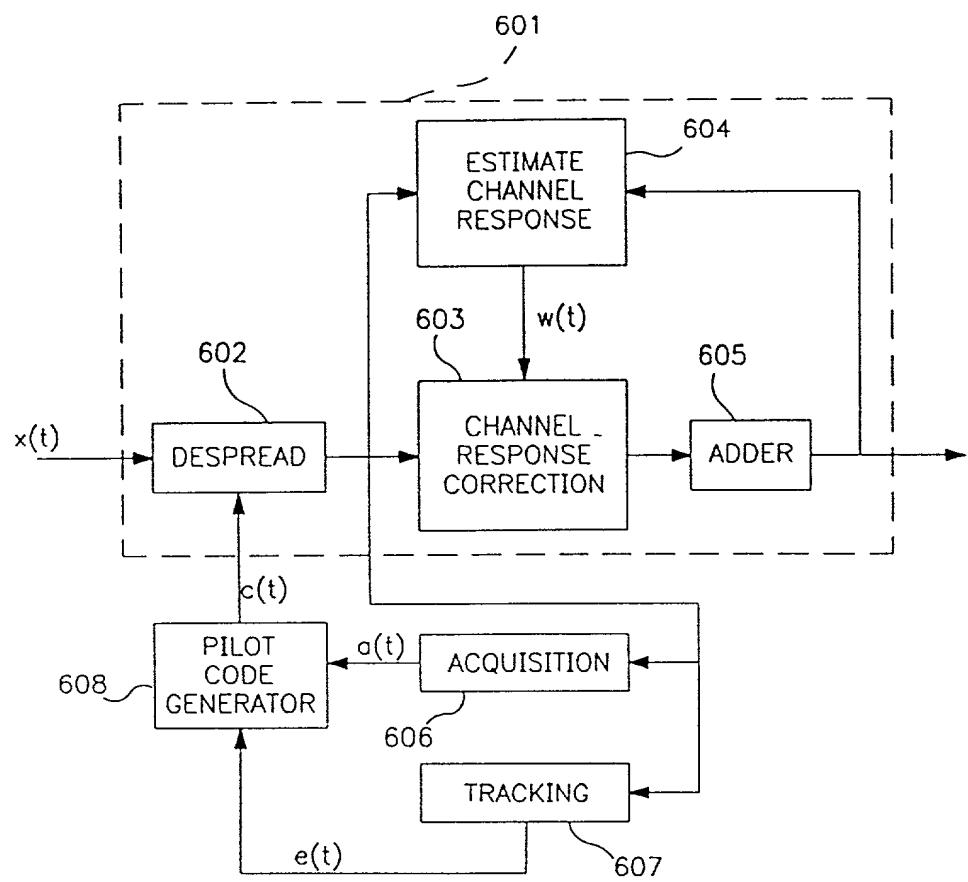


FIG. 6

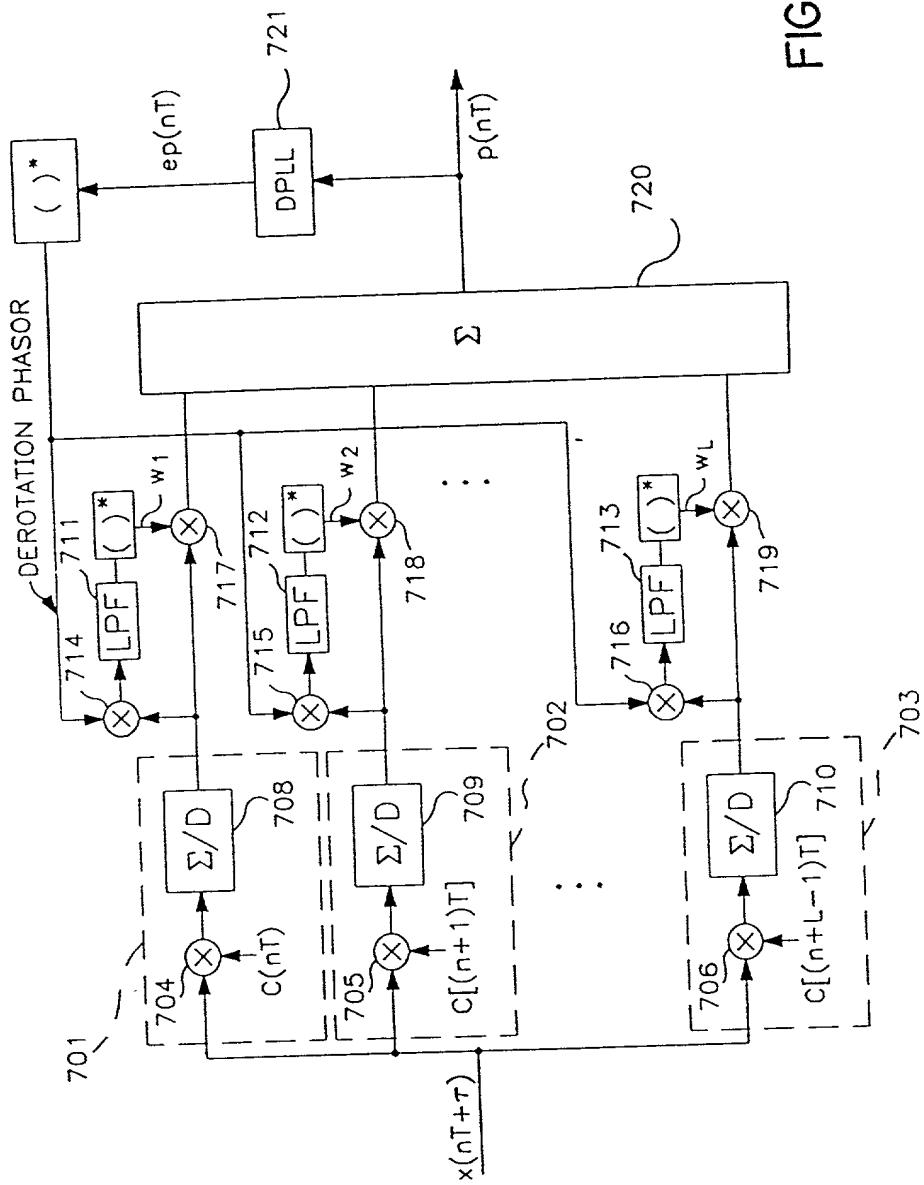


FIG. 7

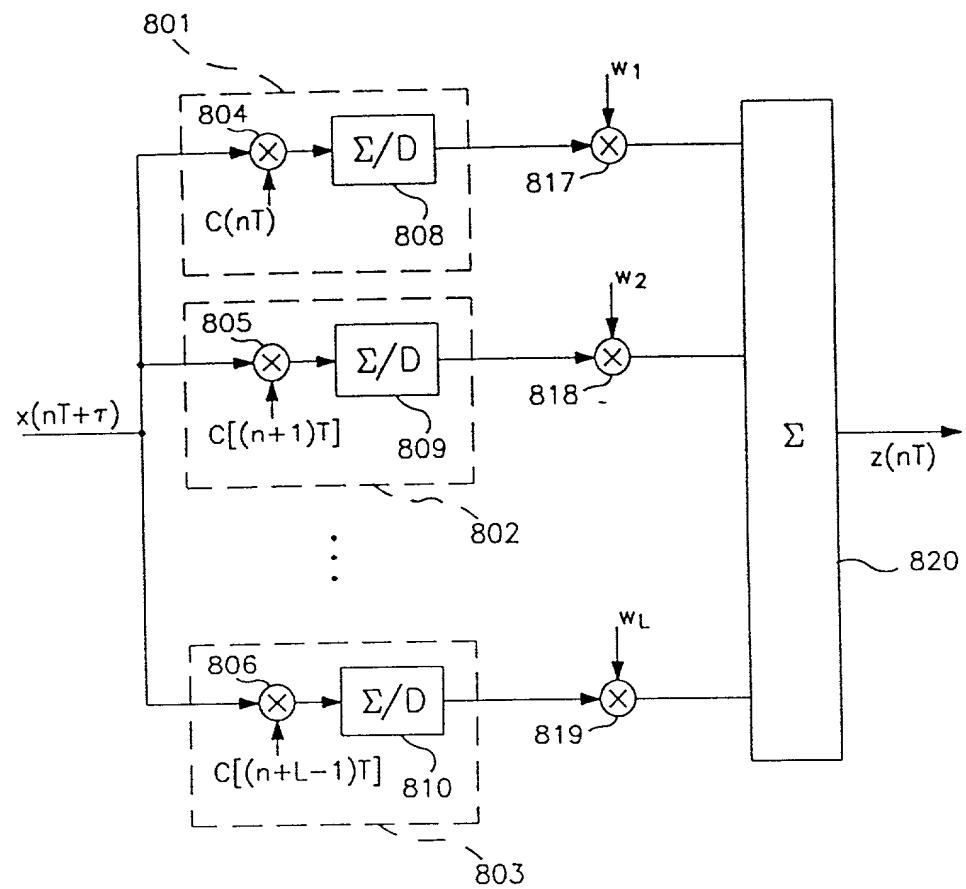


FIG. 8a

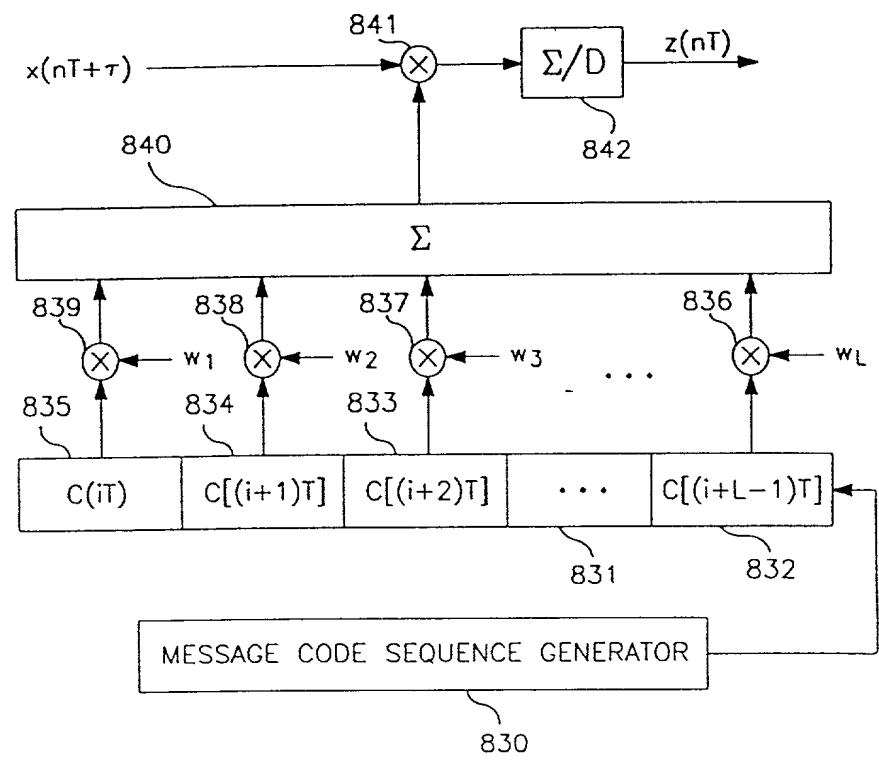


FIG. 8b

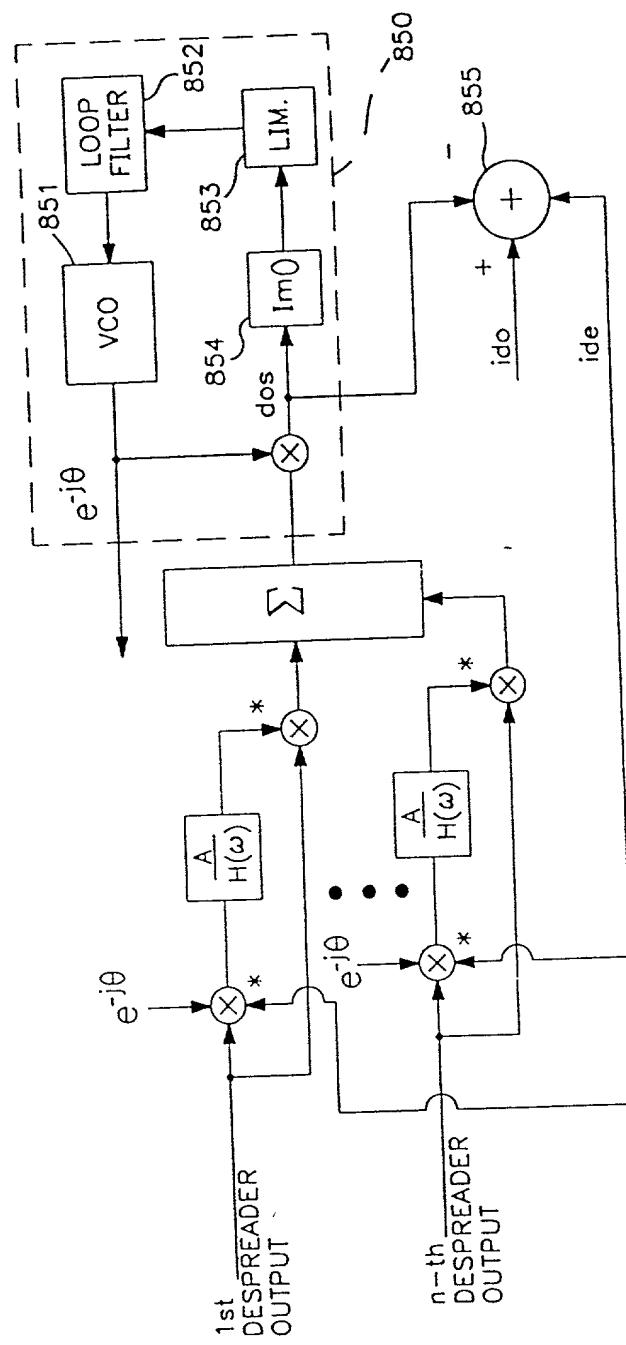


FIG. 8c

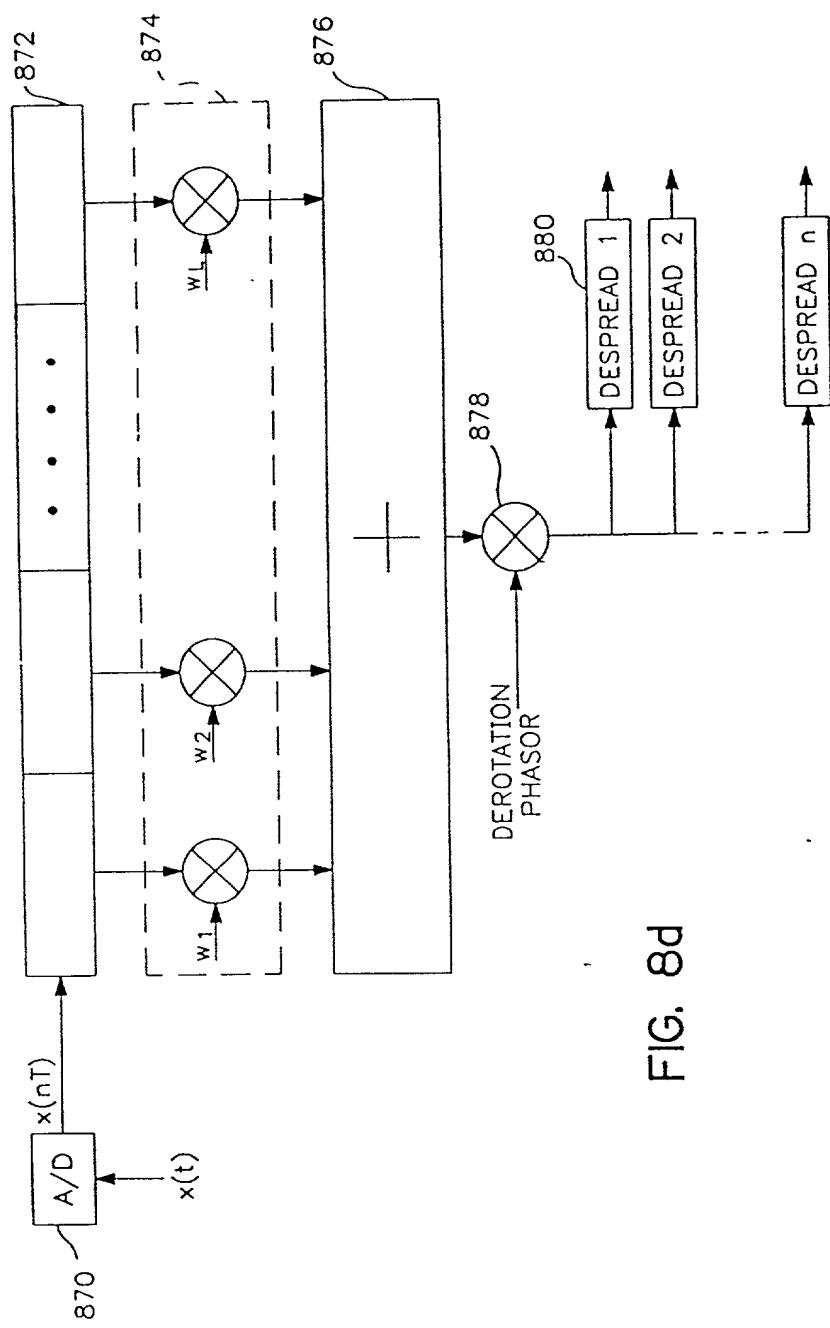


FIG. 8d

FIG. 9

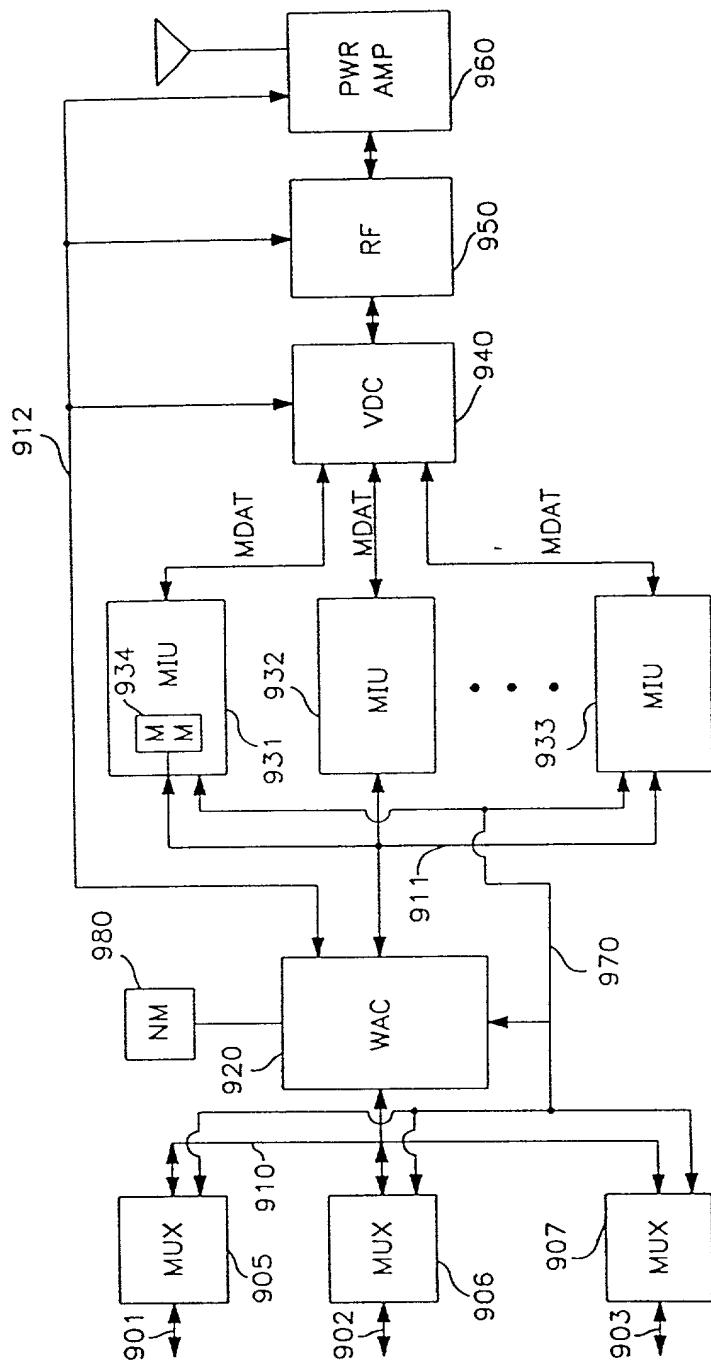


FIG. 10

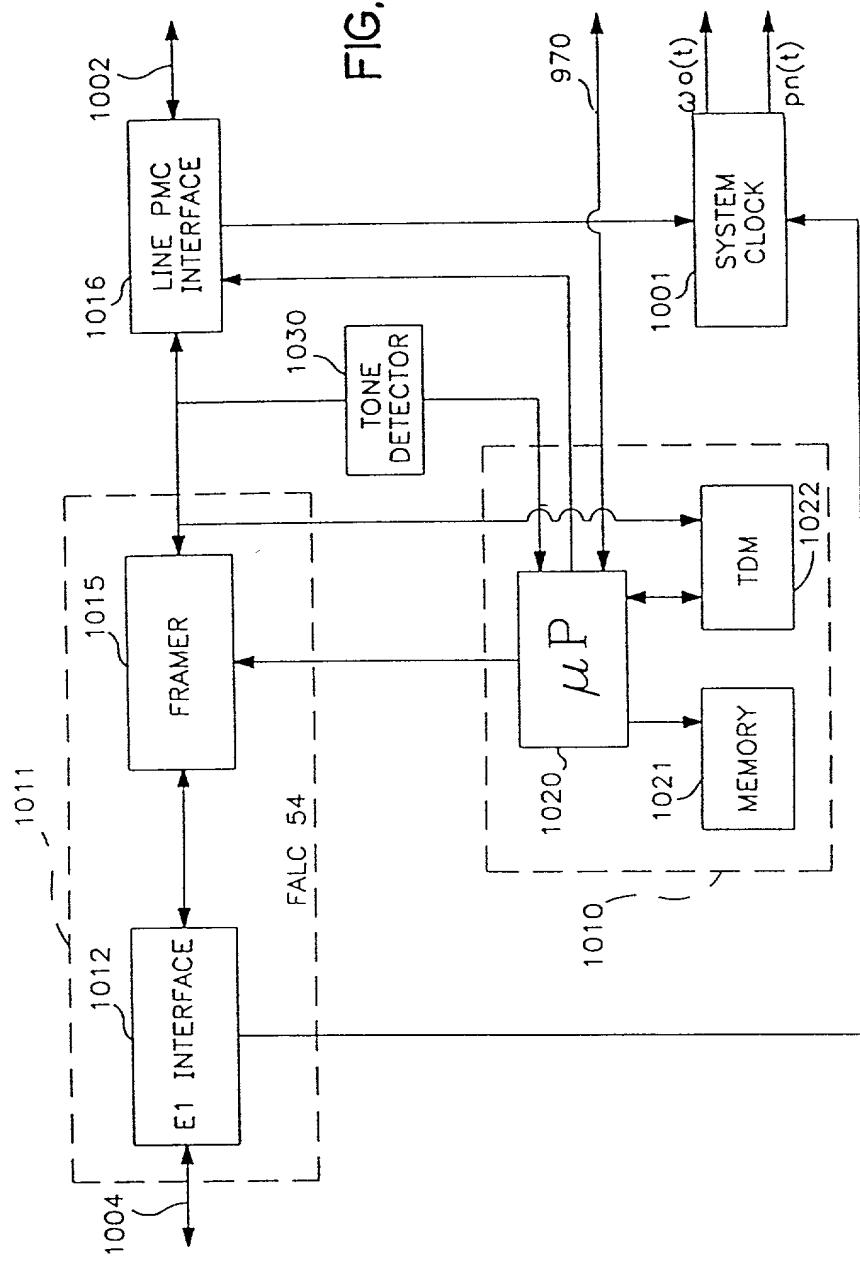
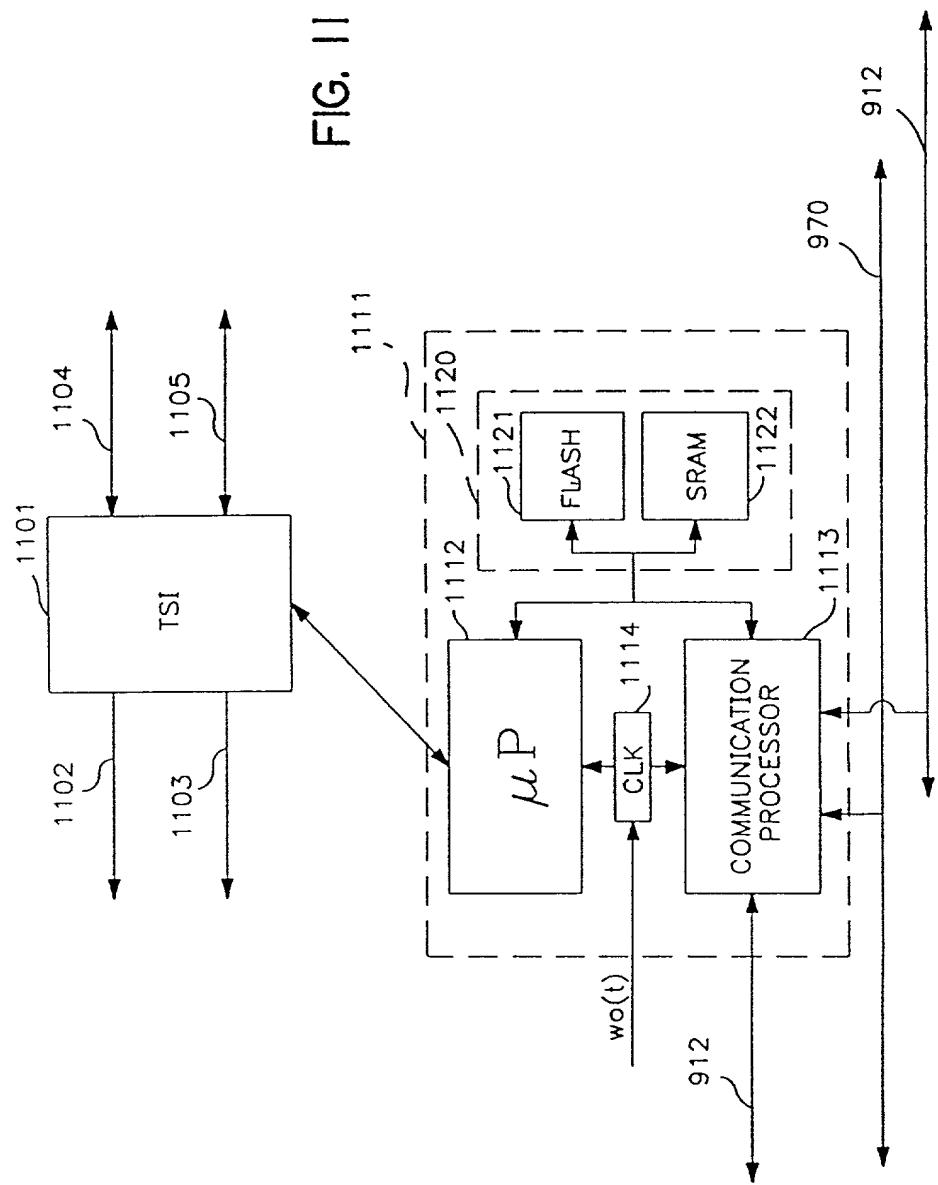


FIG. II



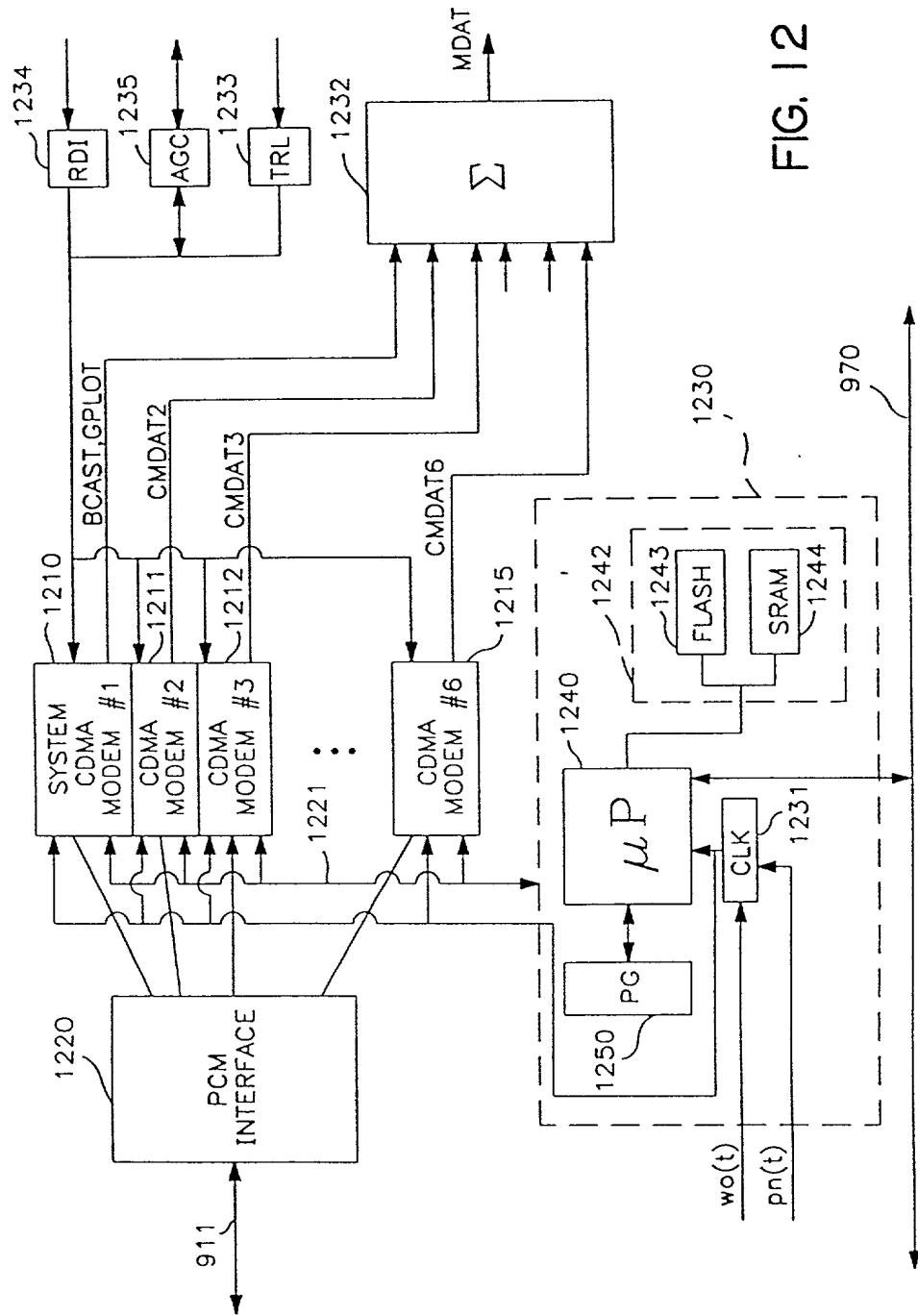


FIG. 12

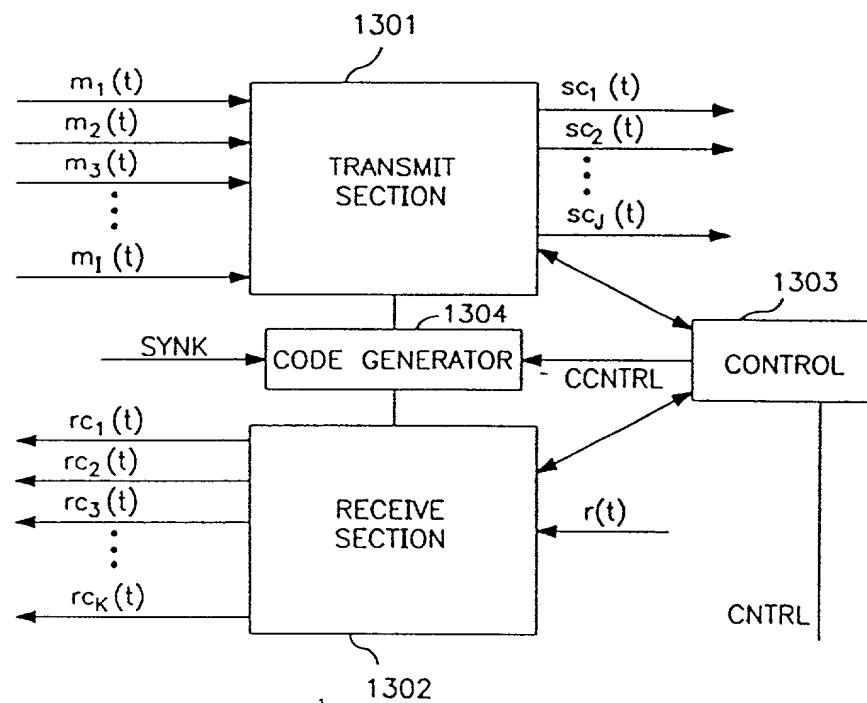


FIG. 13

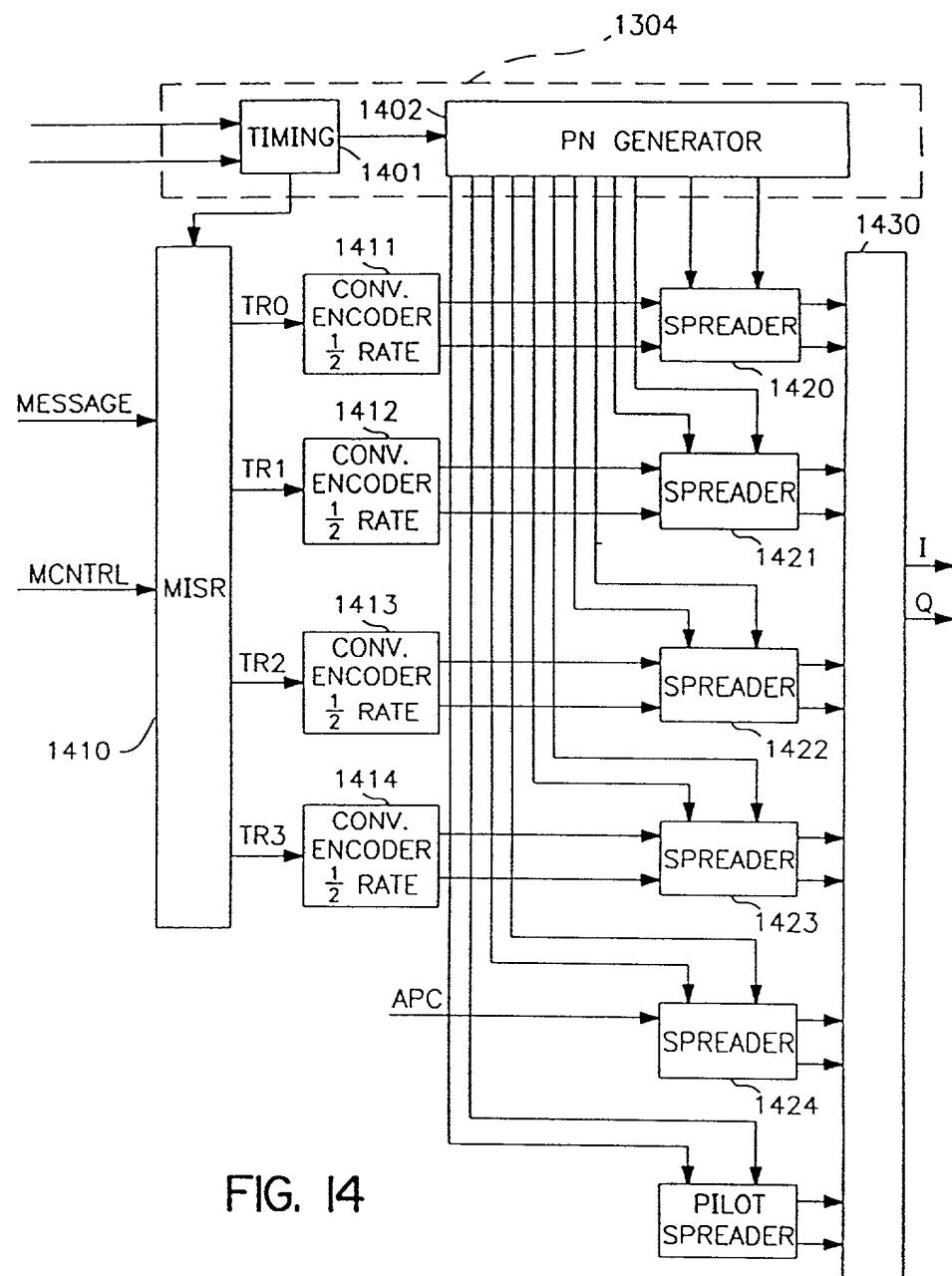
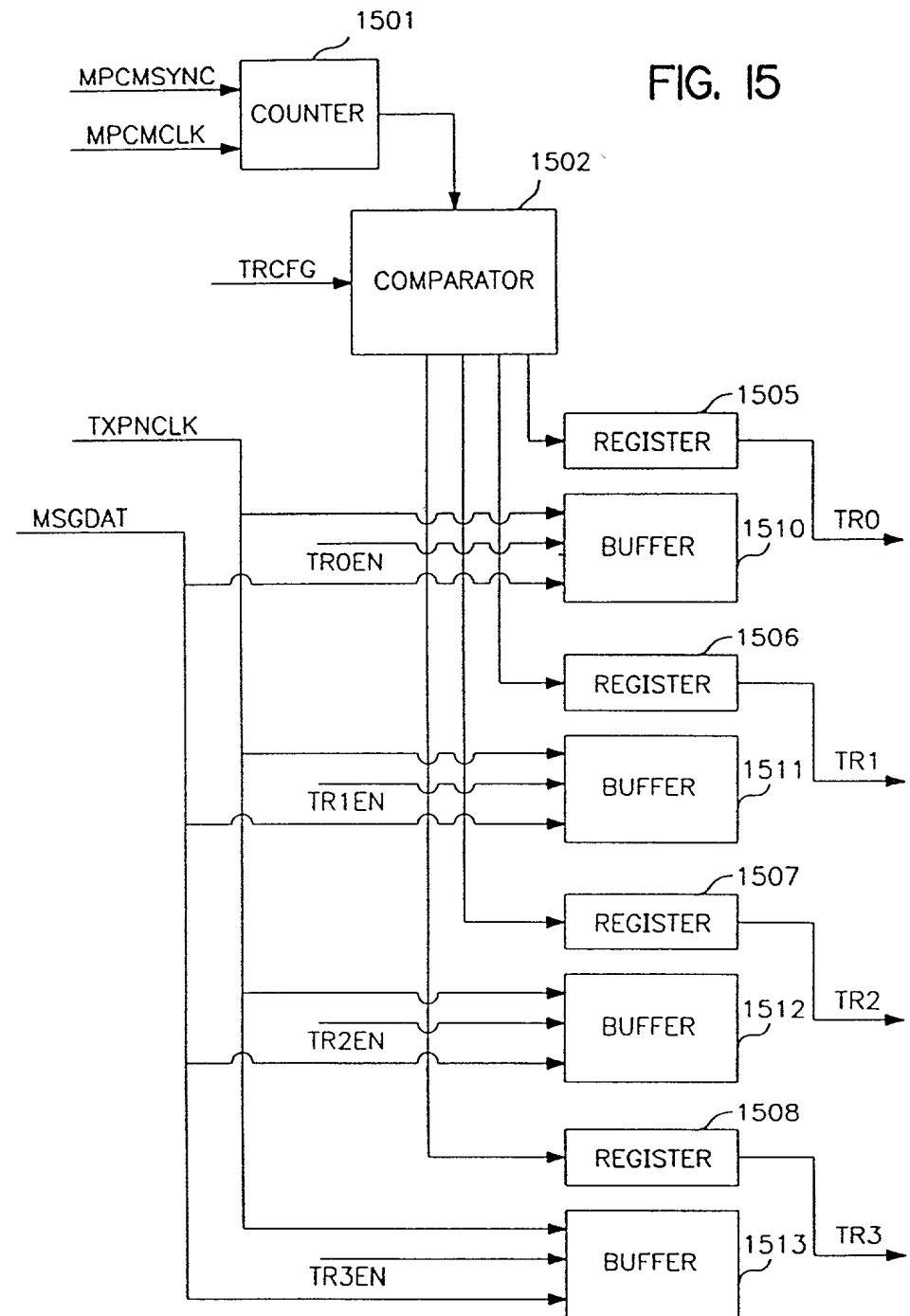


FIG. 14

FIG. 15



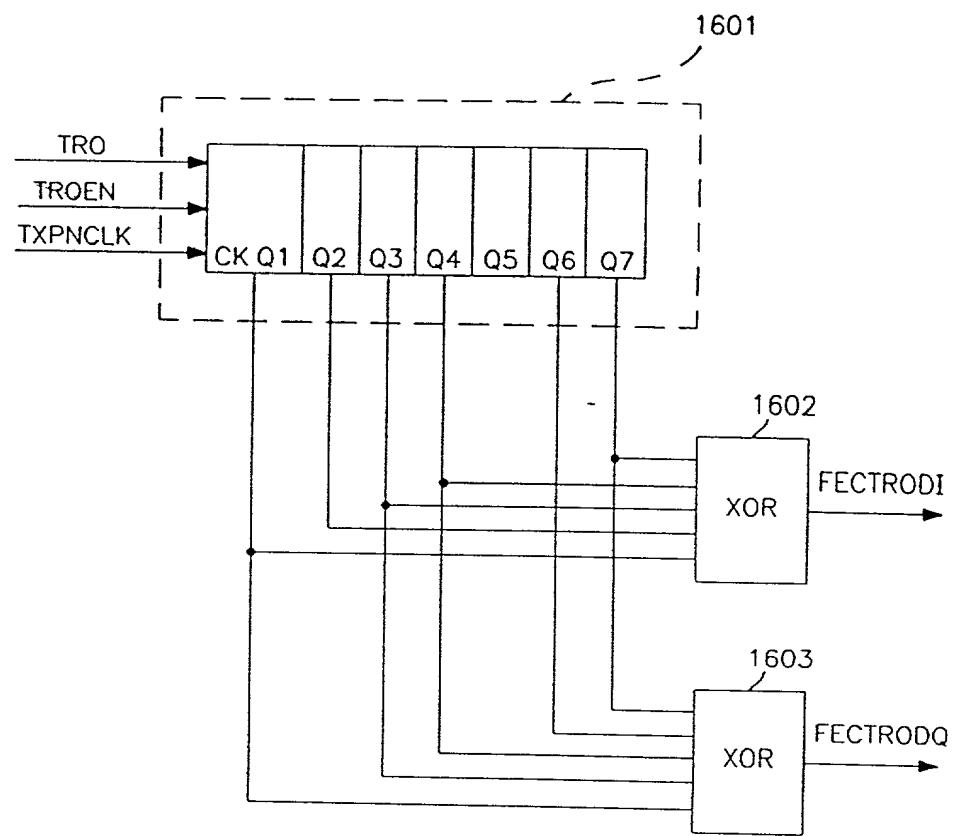


FIG. 16

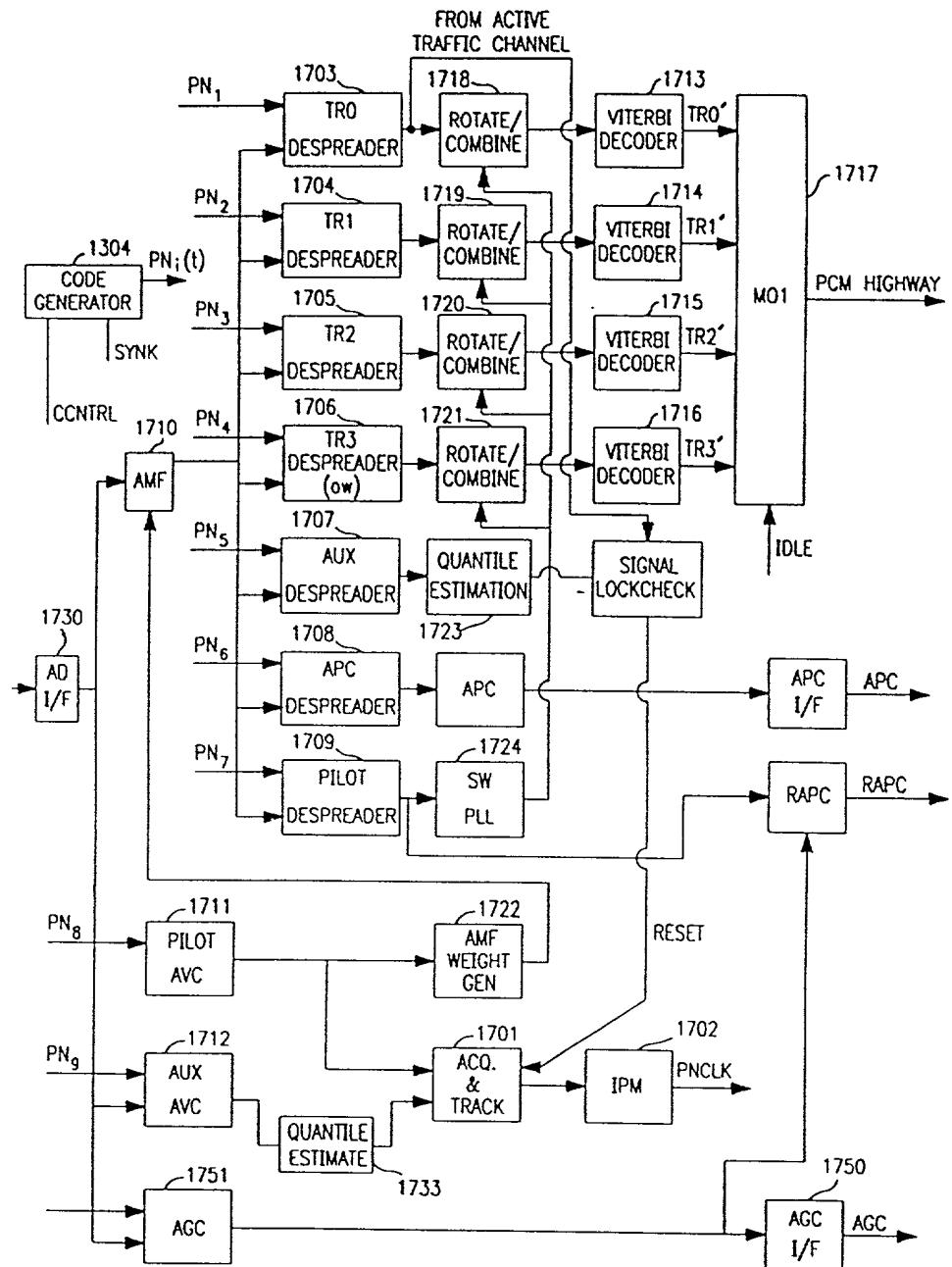


FIG. 17

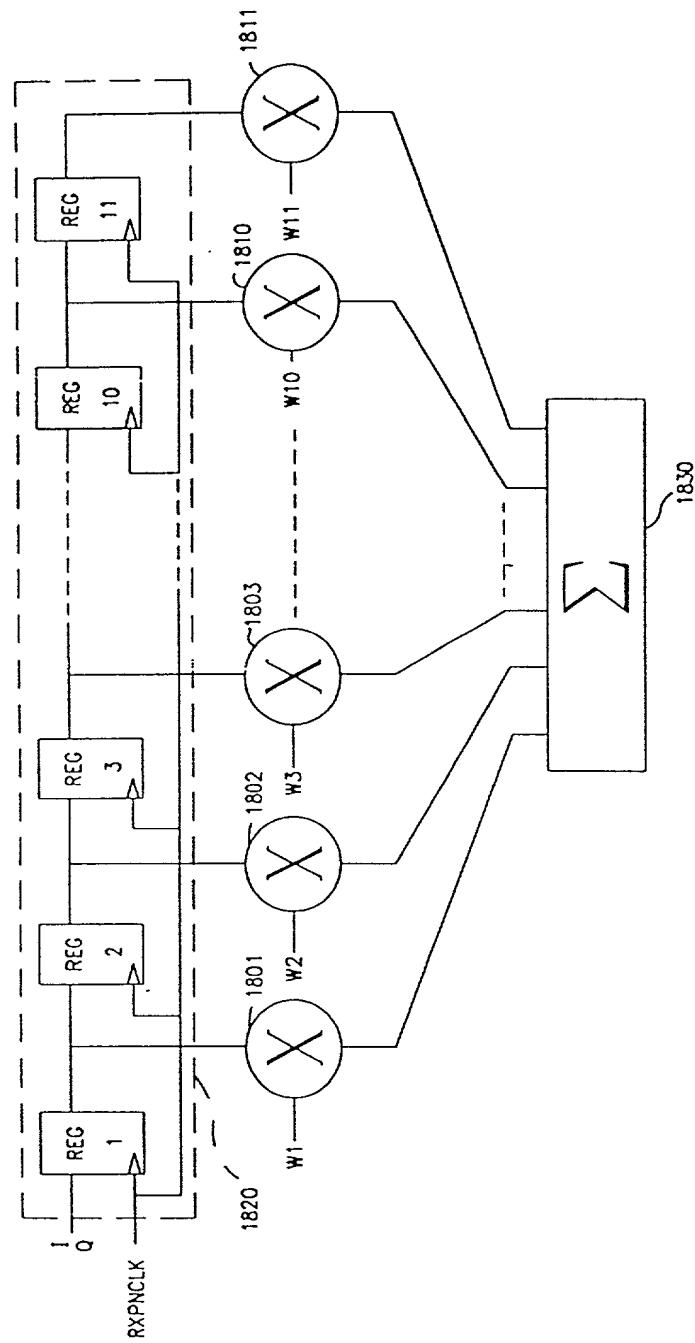


FIG. 18

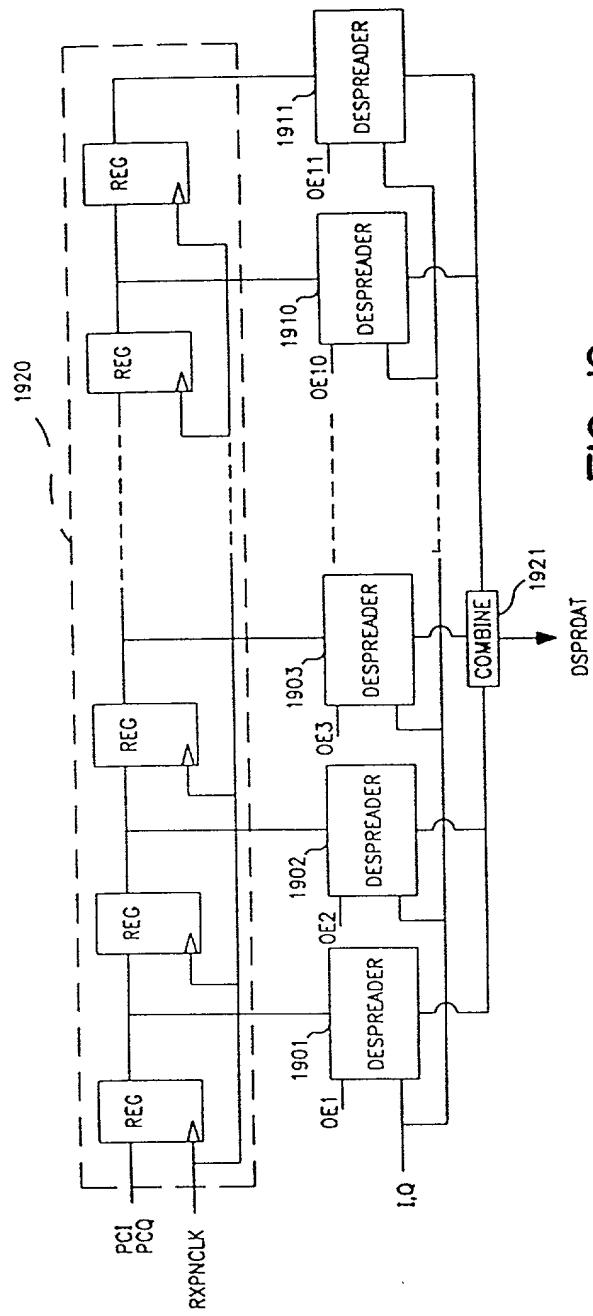


FIG. 19

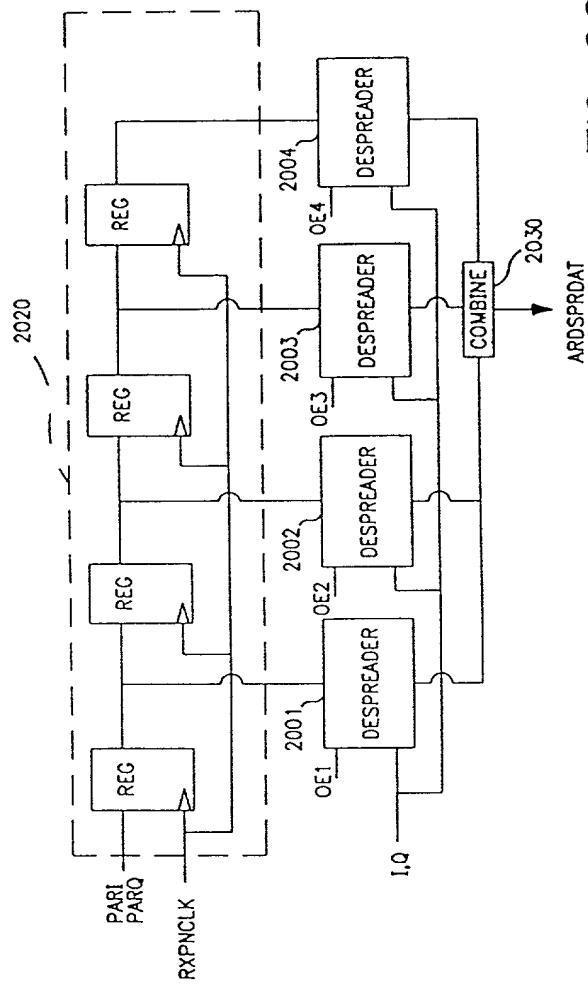
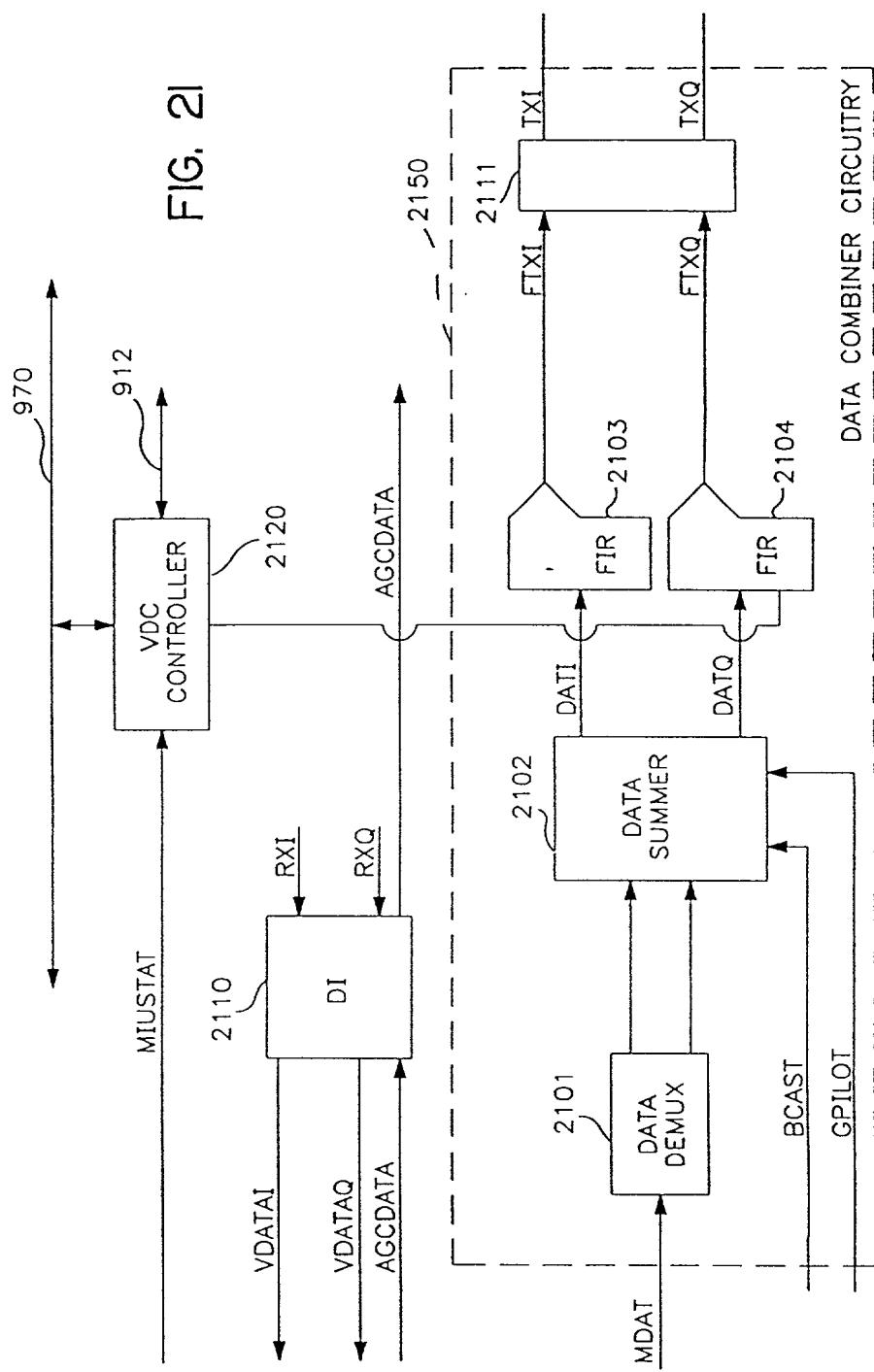


FIG. 20

FIG. 2



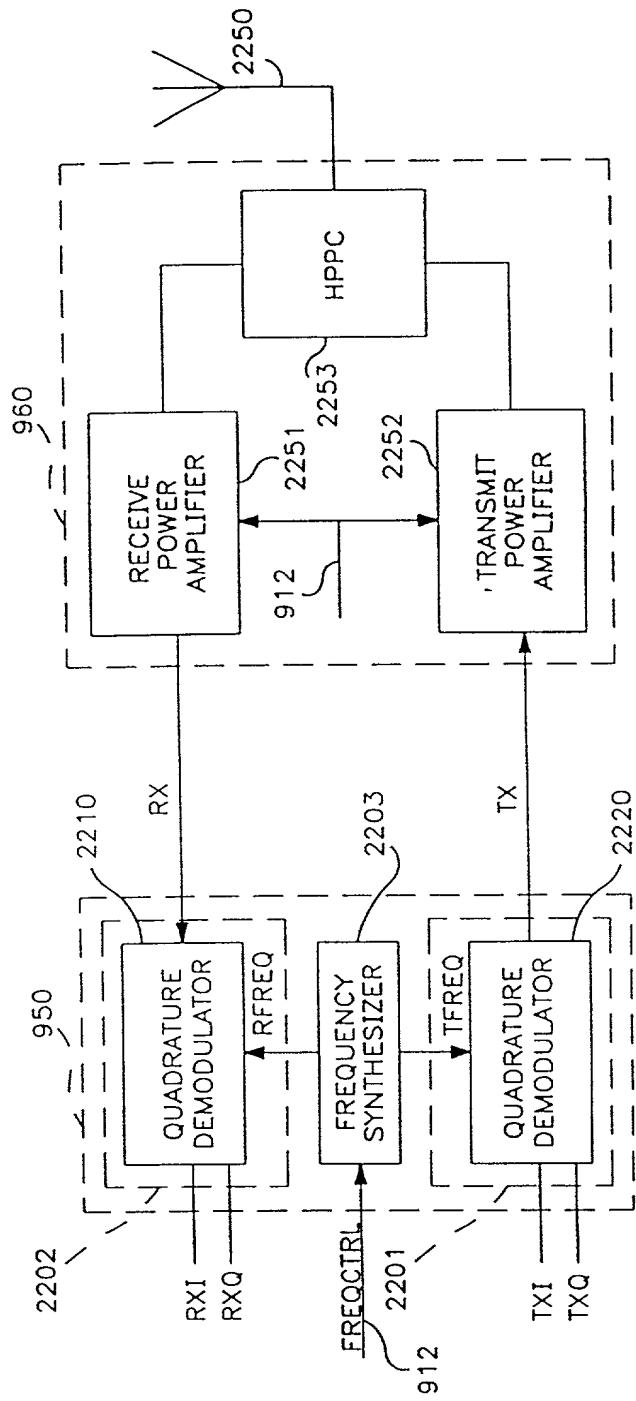


FIG. 22

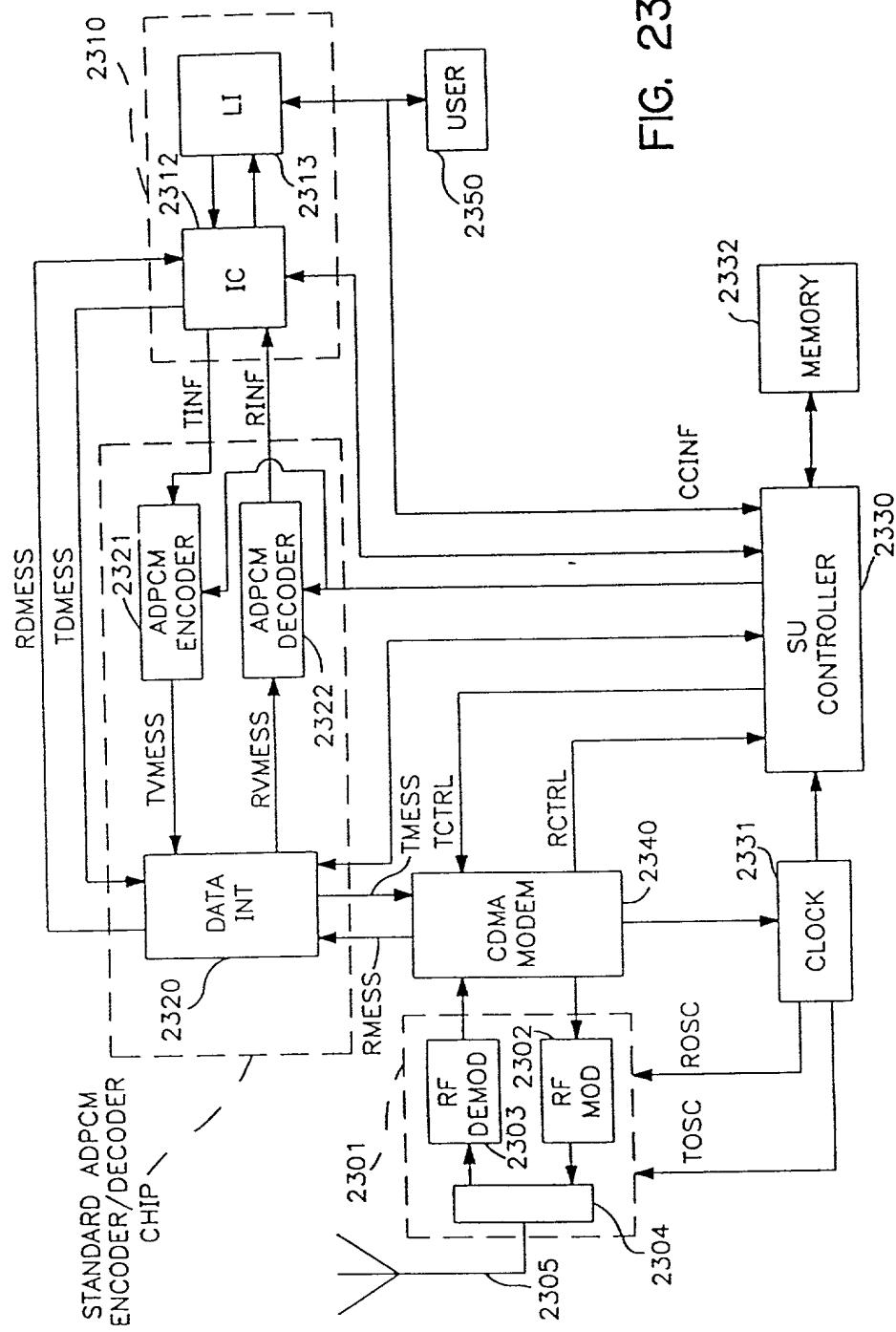


FIG. 23

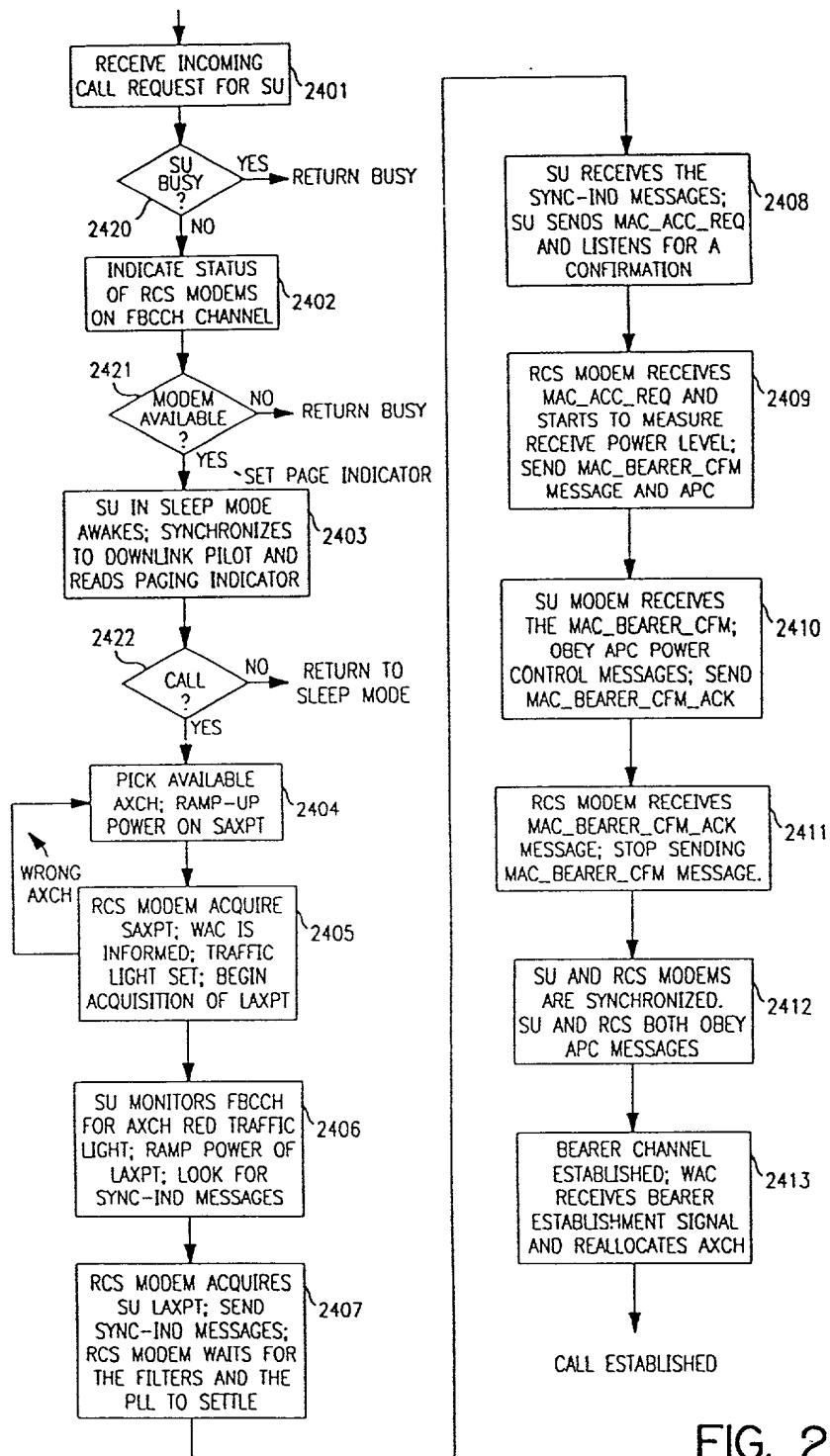


FIG. 24

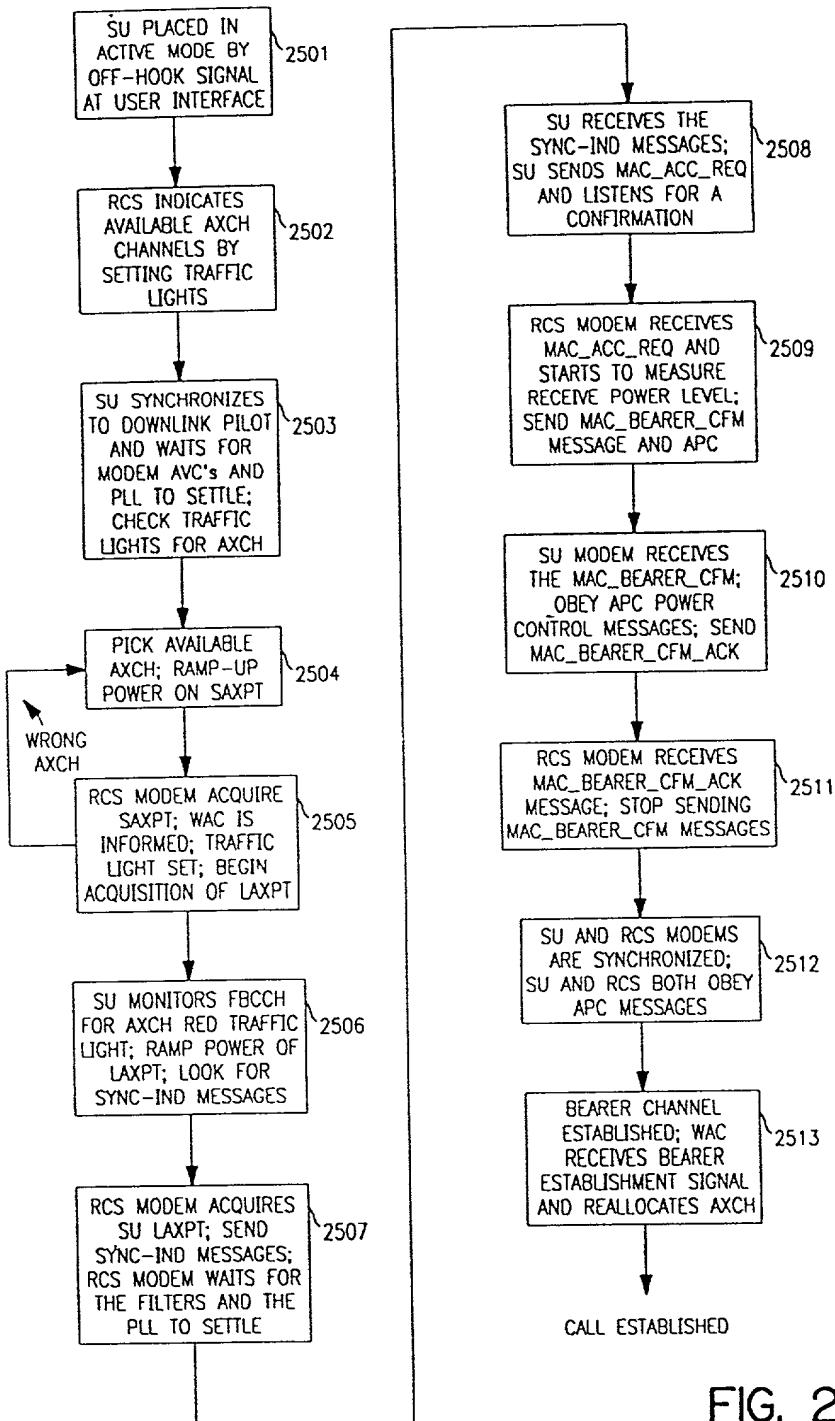


FIG. 25

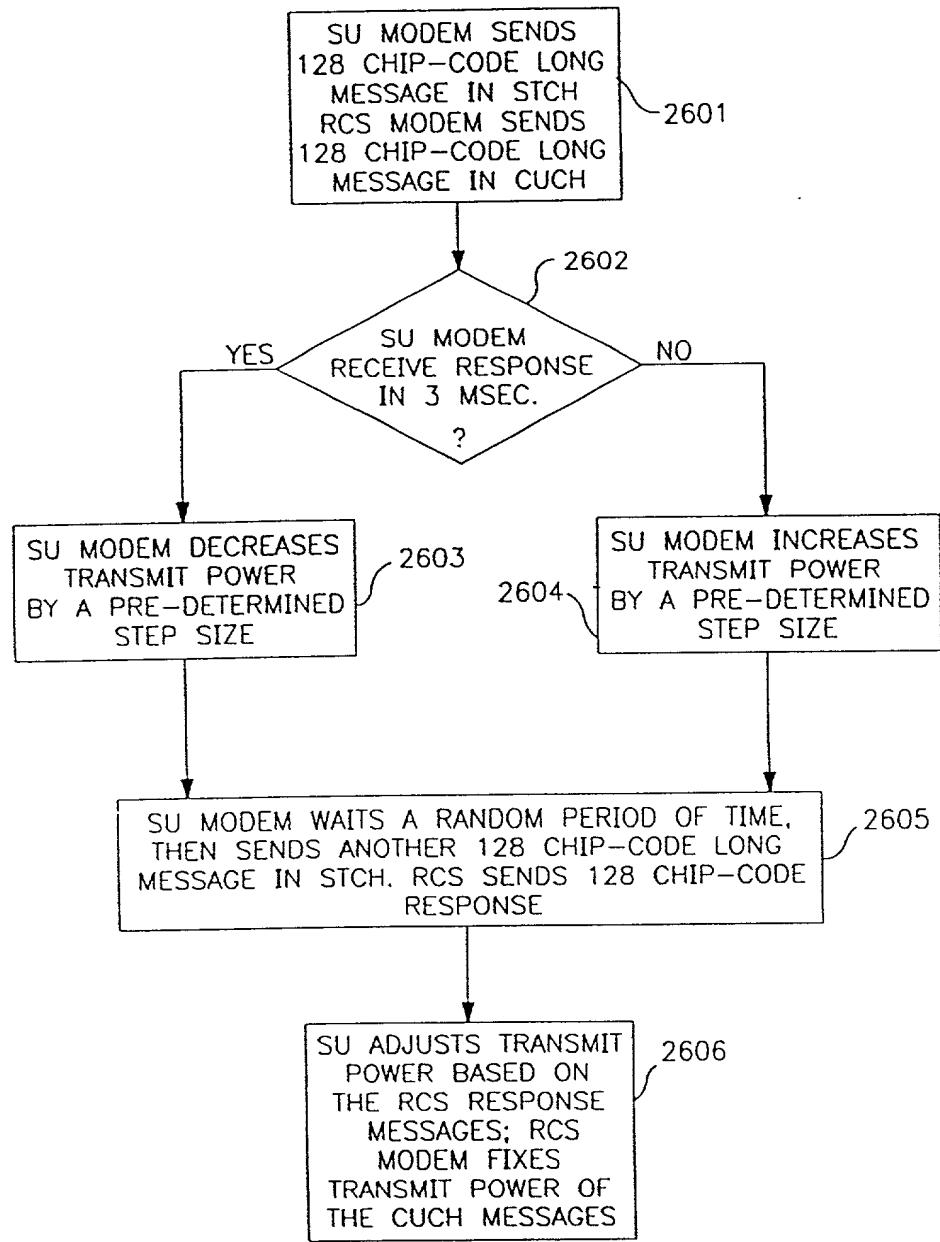


FIG. 26

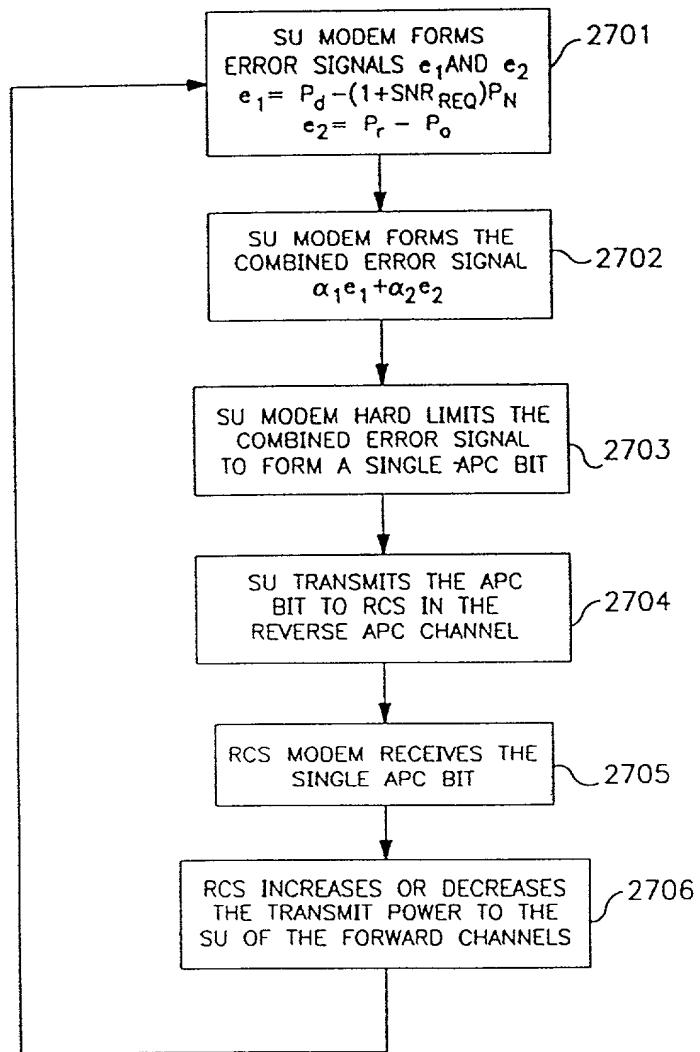


FIG. 27

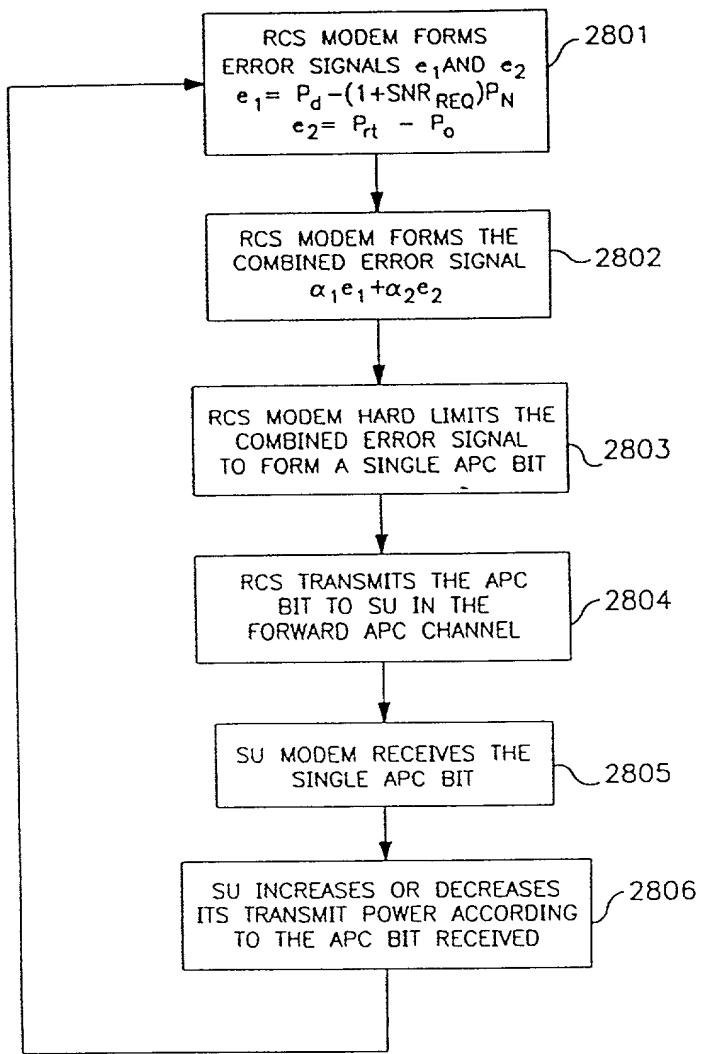
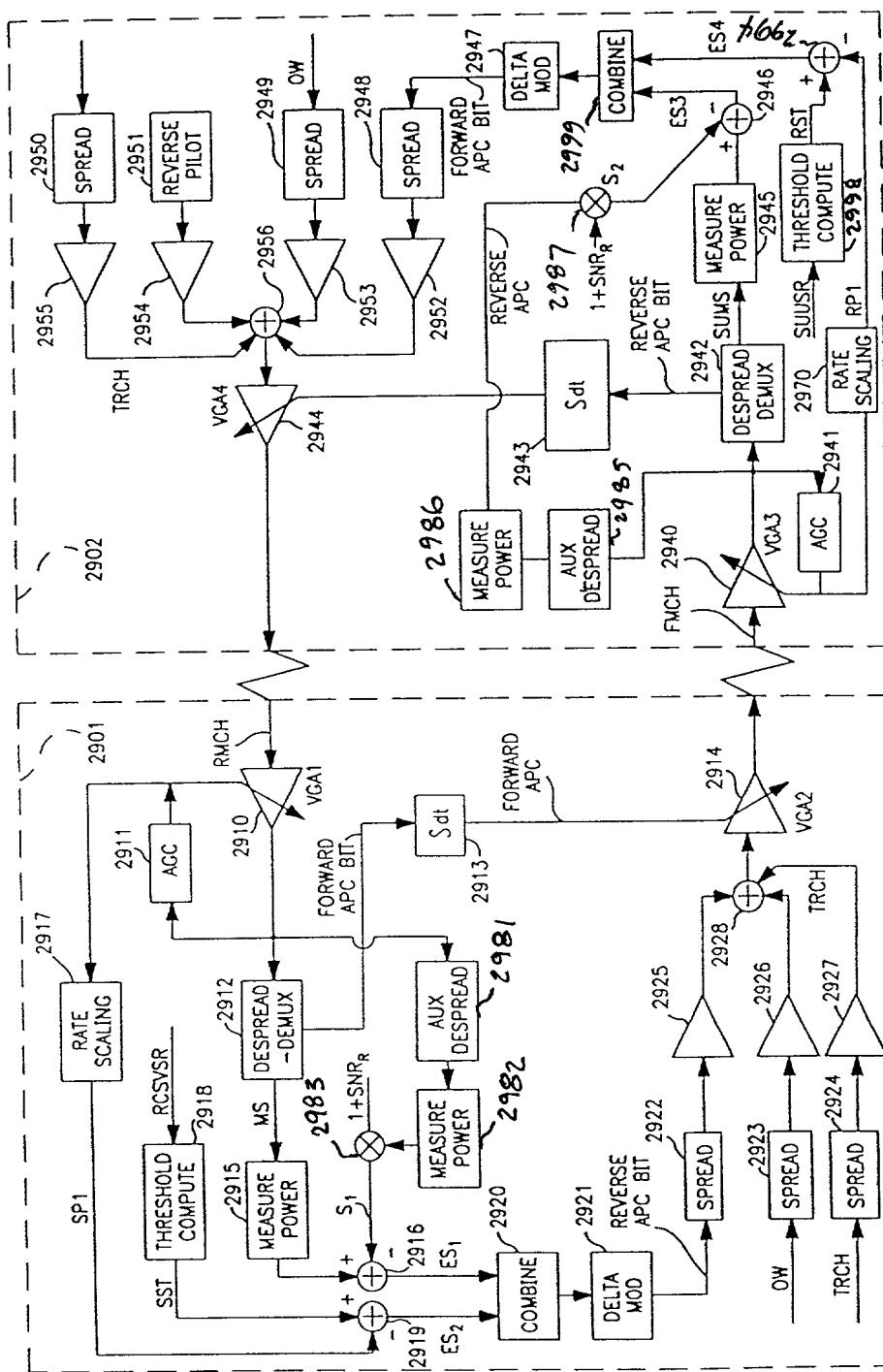


FIG. 28



29

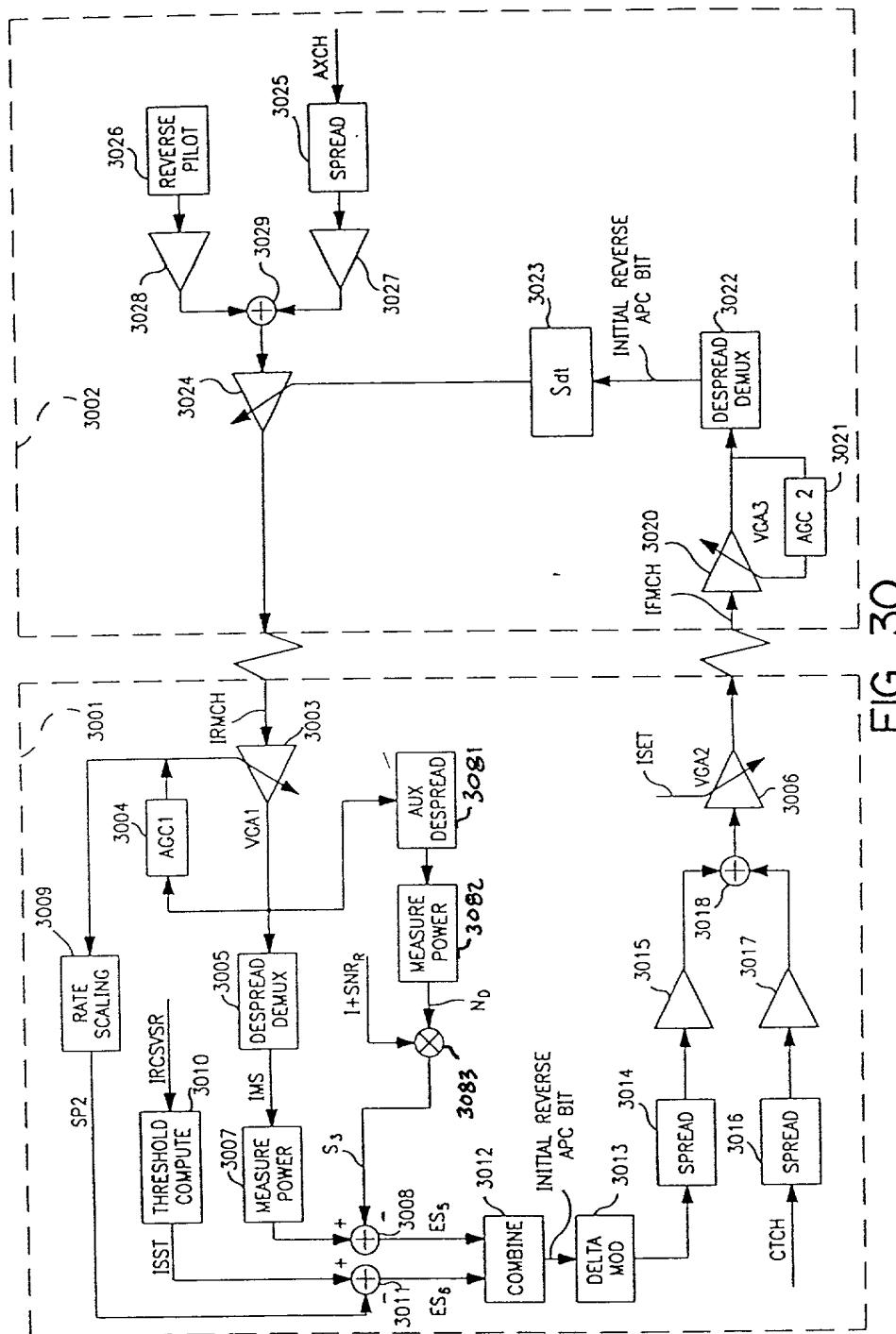


FIG. 30

FIG.31

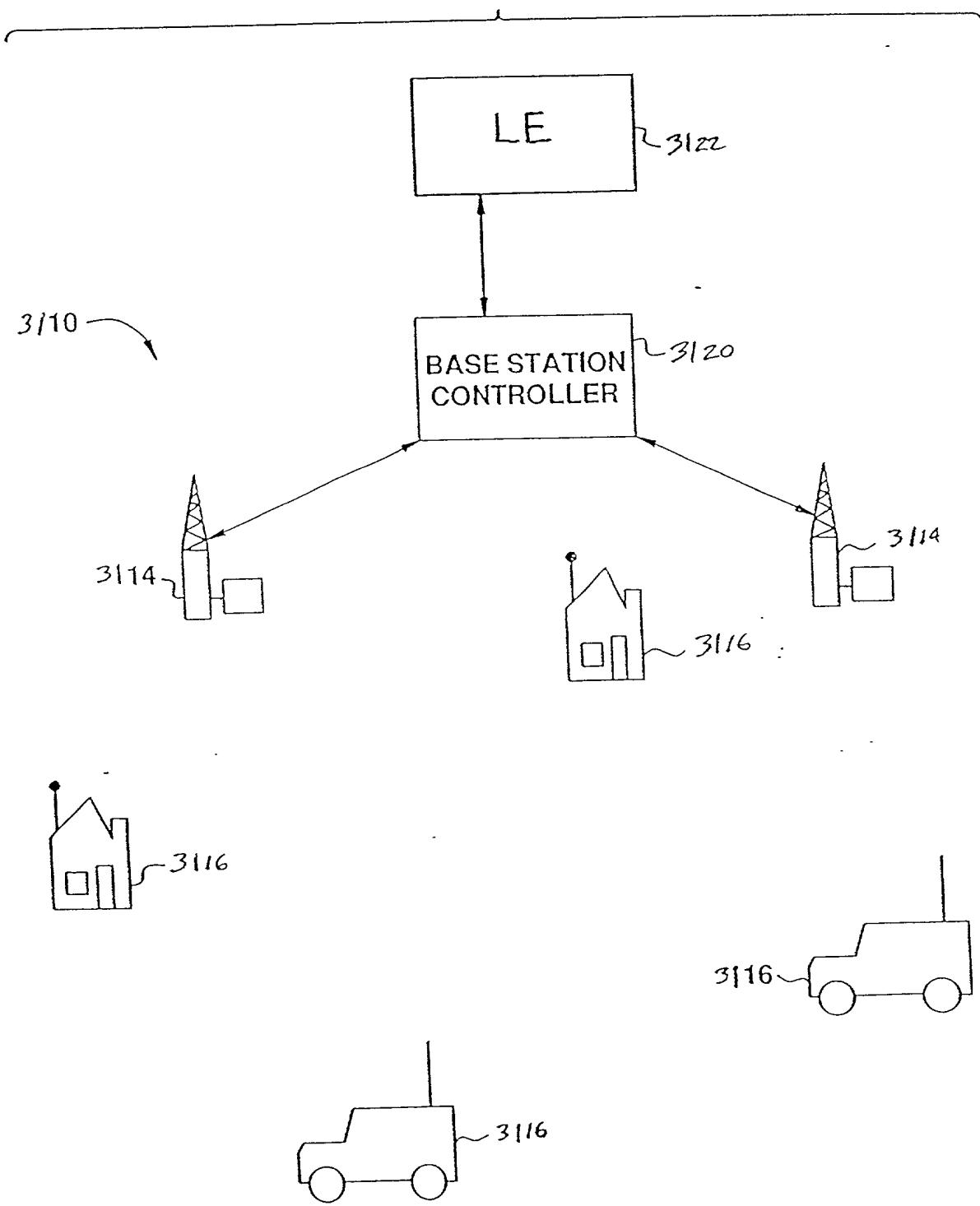


FIG. 32

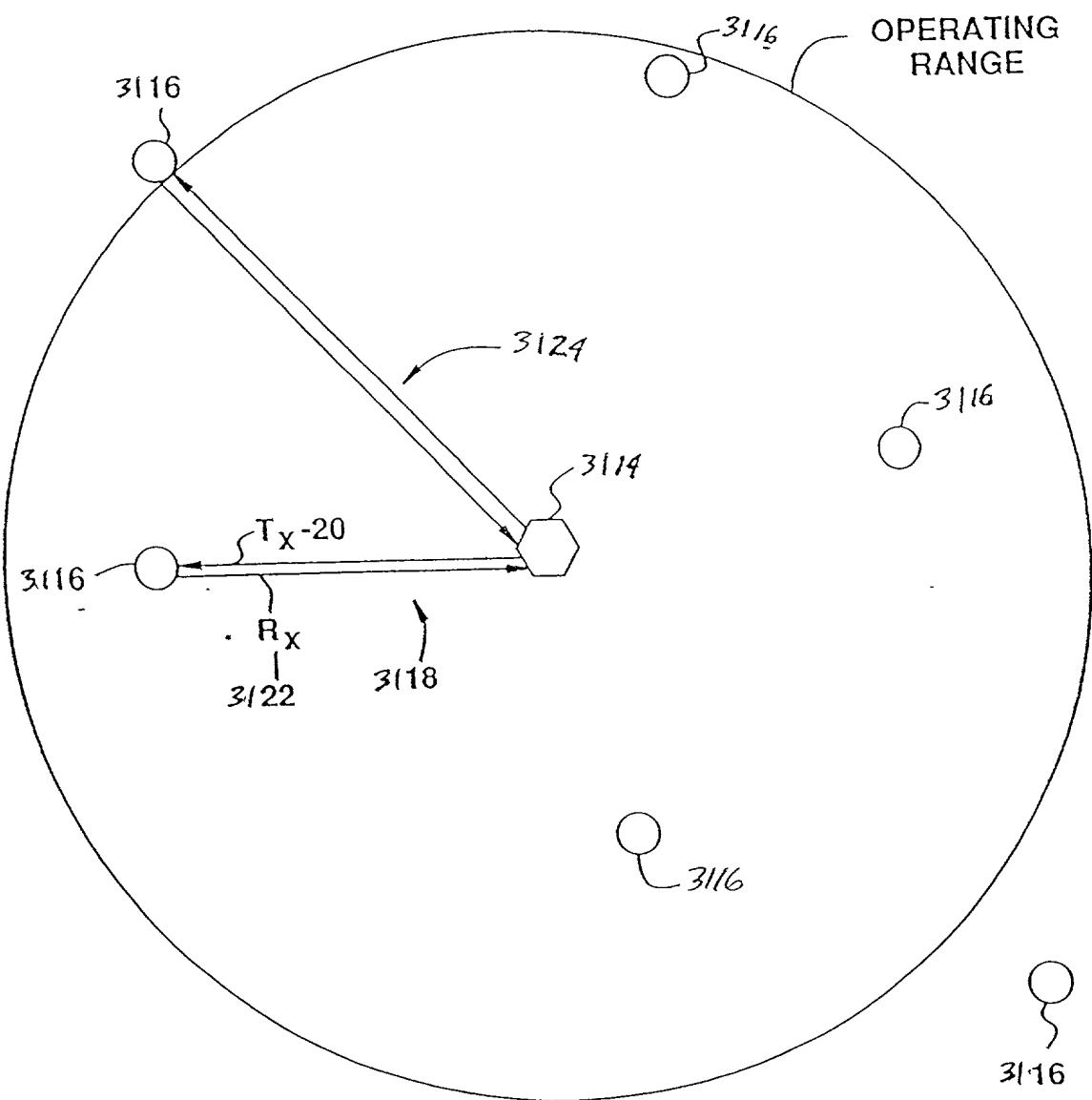


FIG. 33

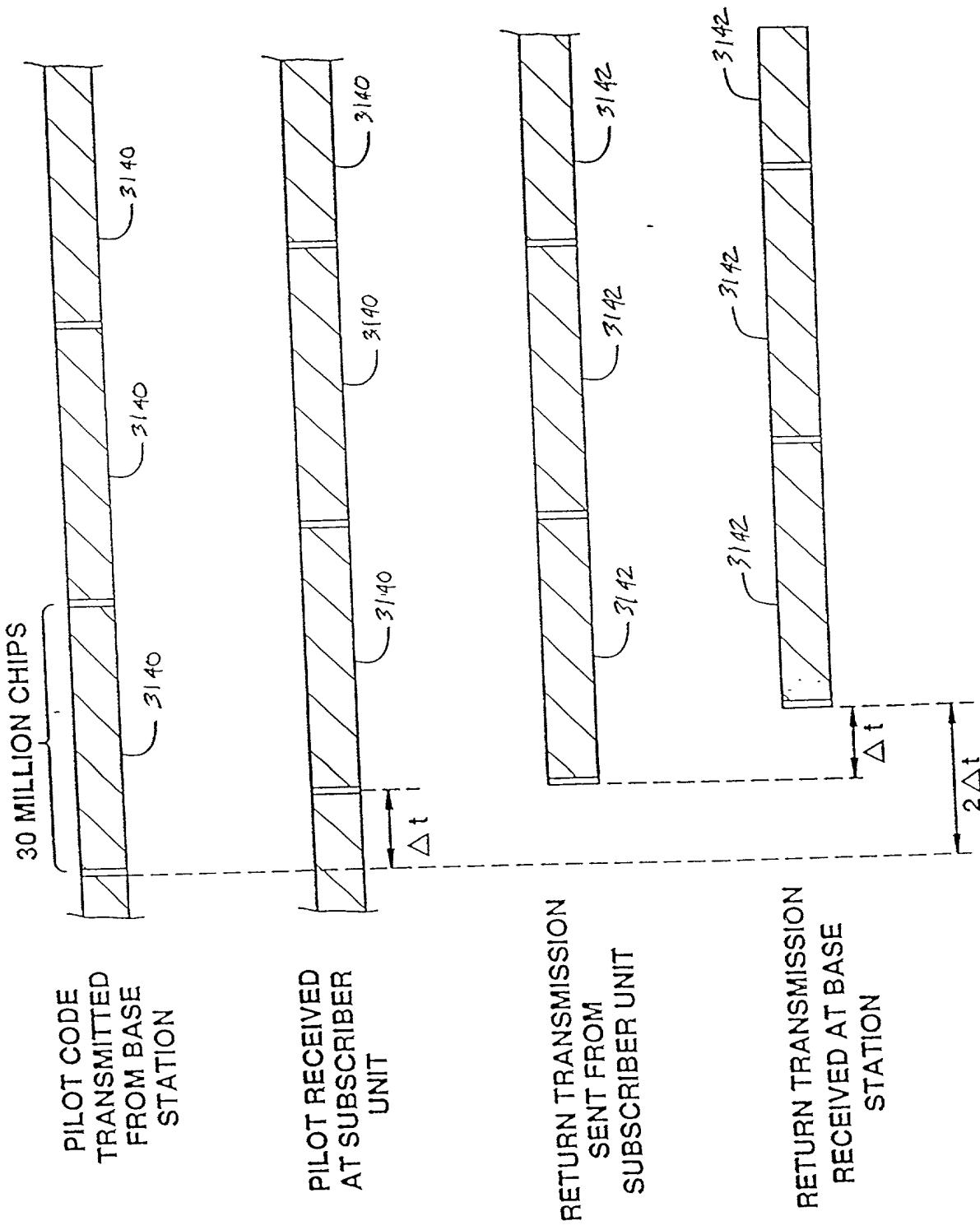


FIG.34

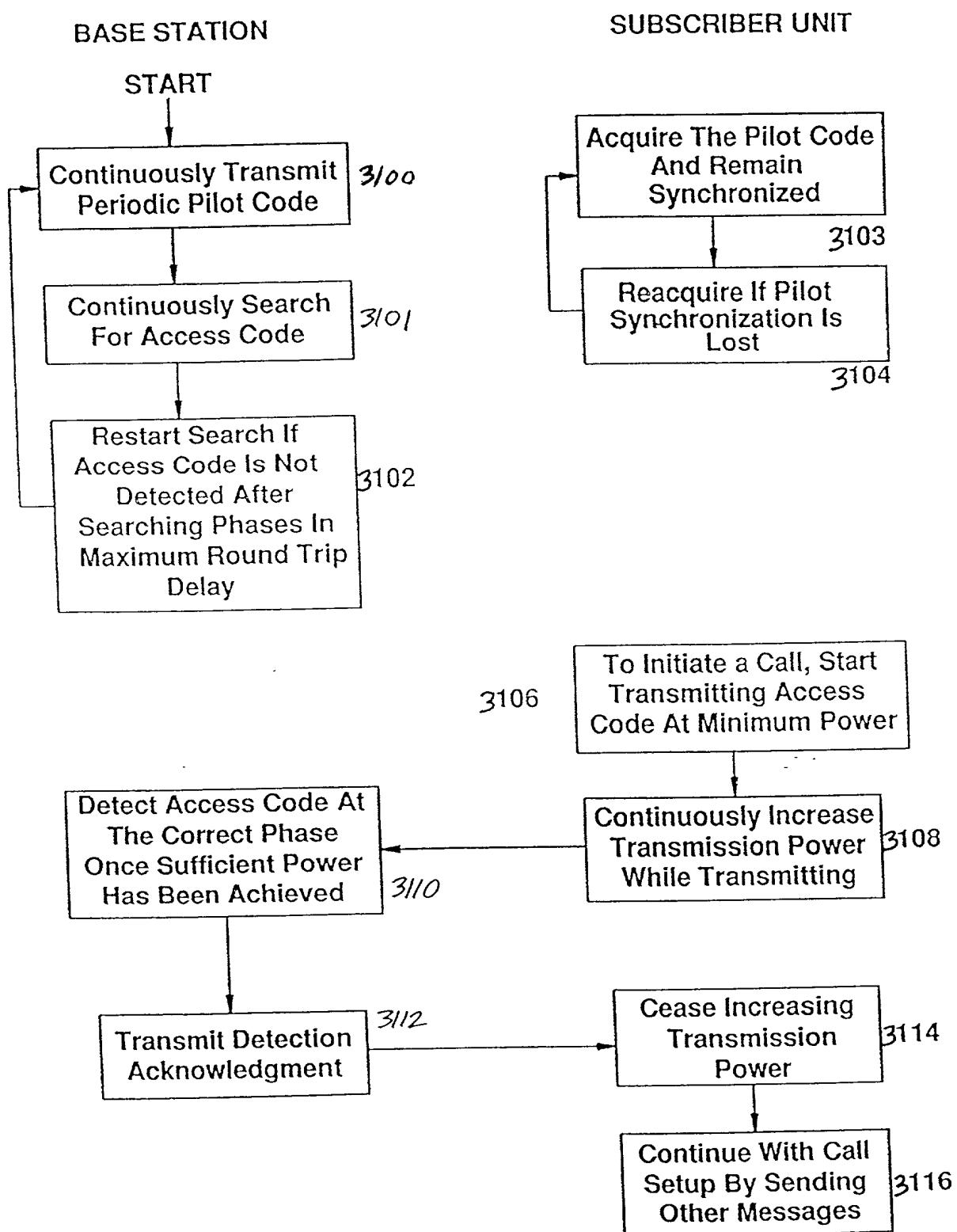


FIG.35

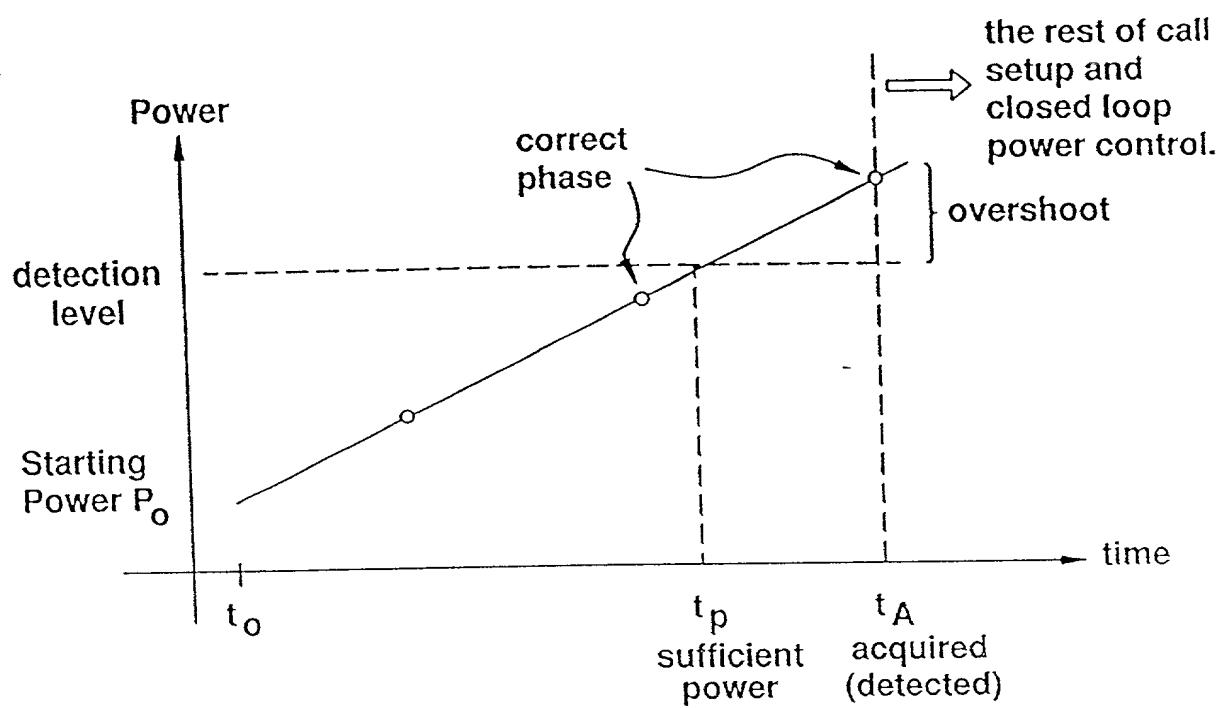


FIG.37

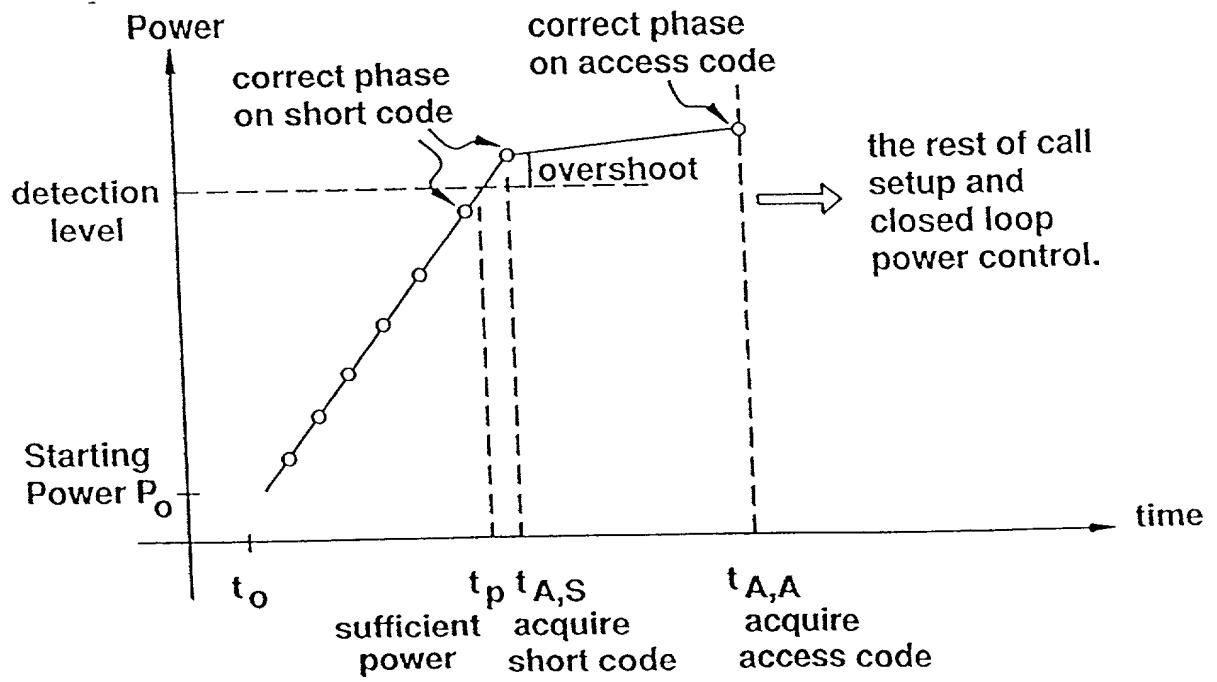


FIG. 36A

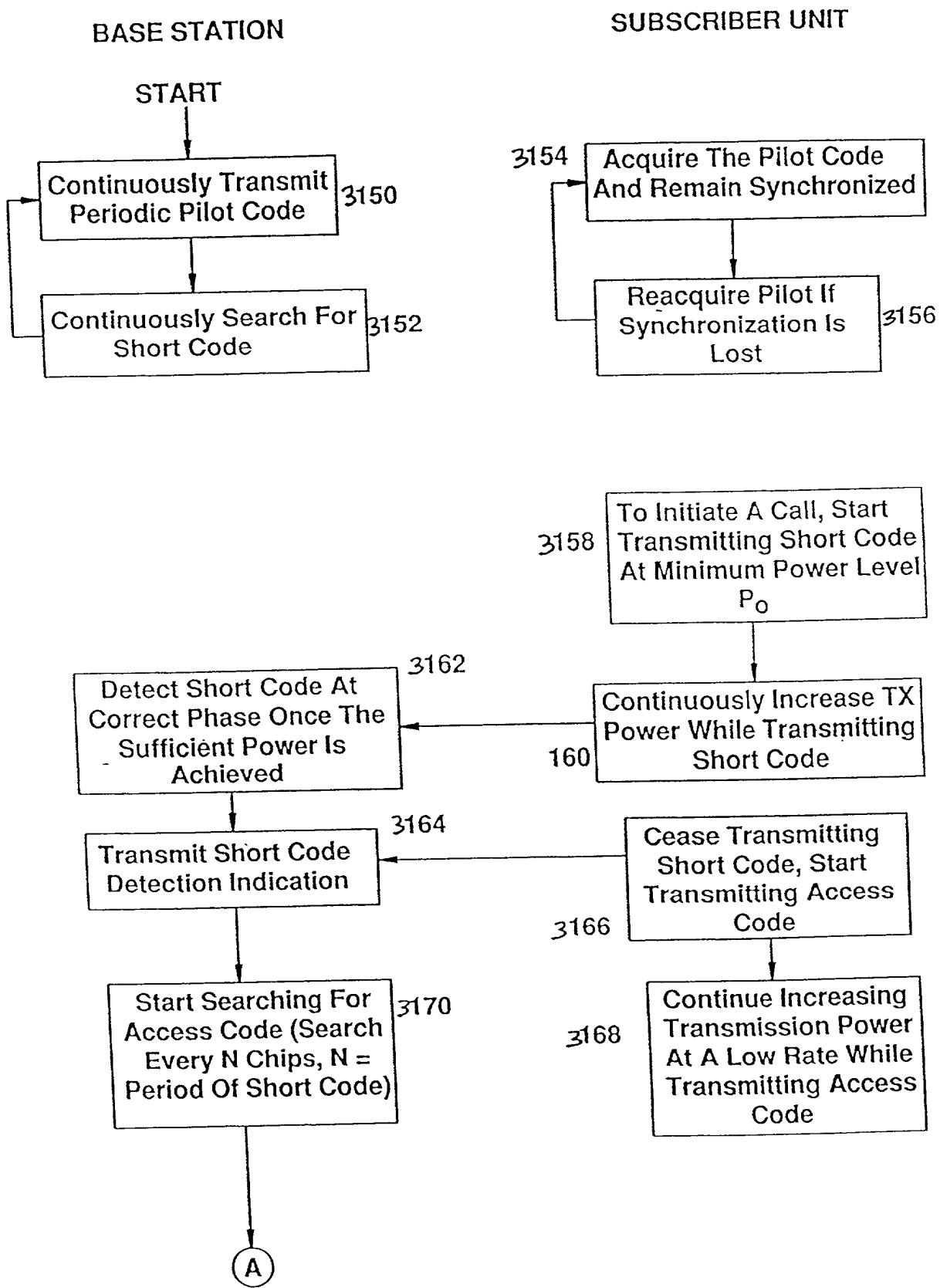


FIG.36B

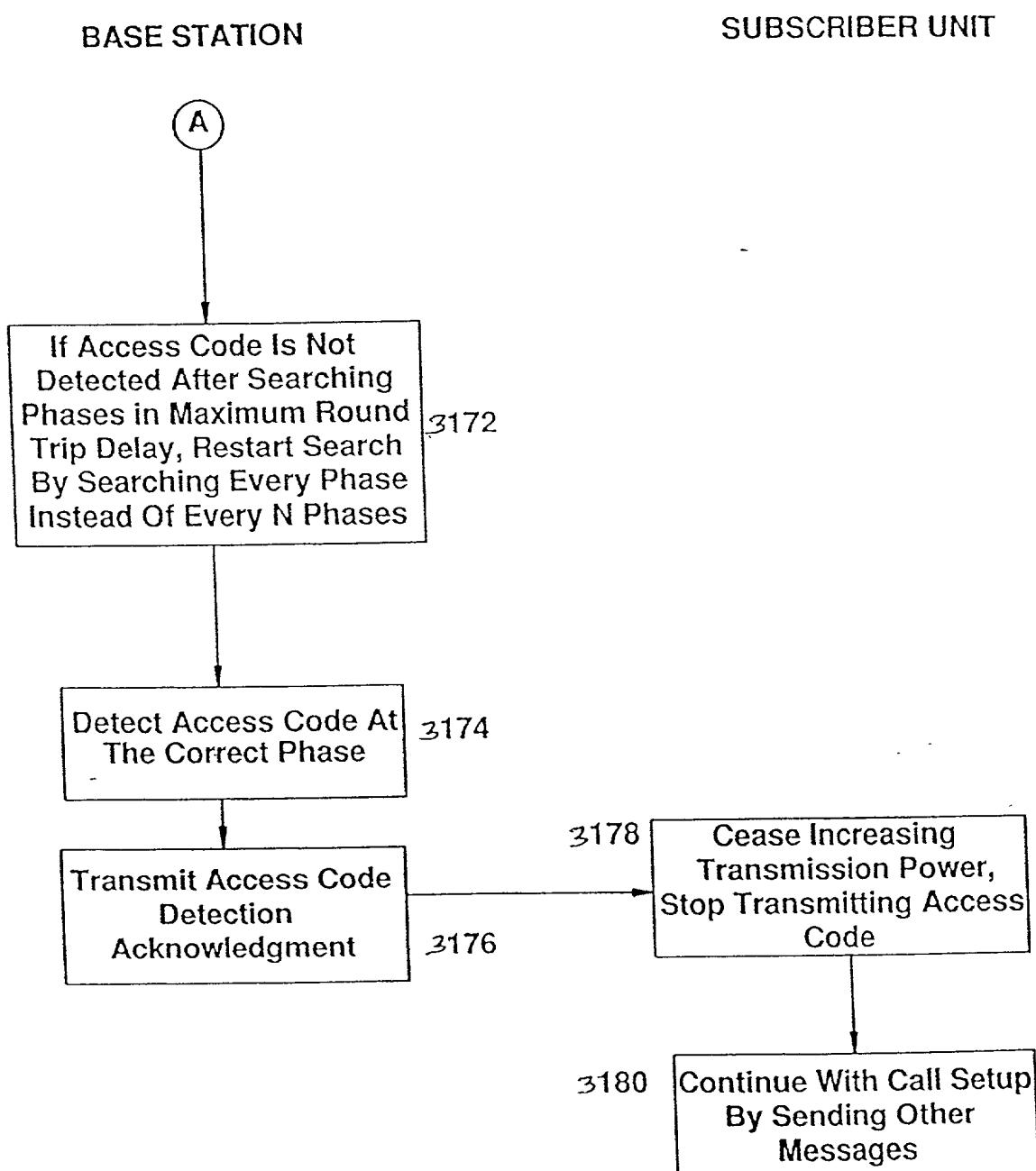


FIG. 37

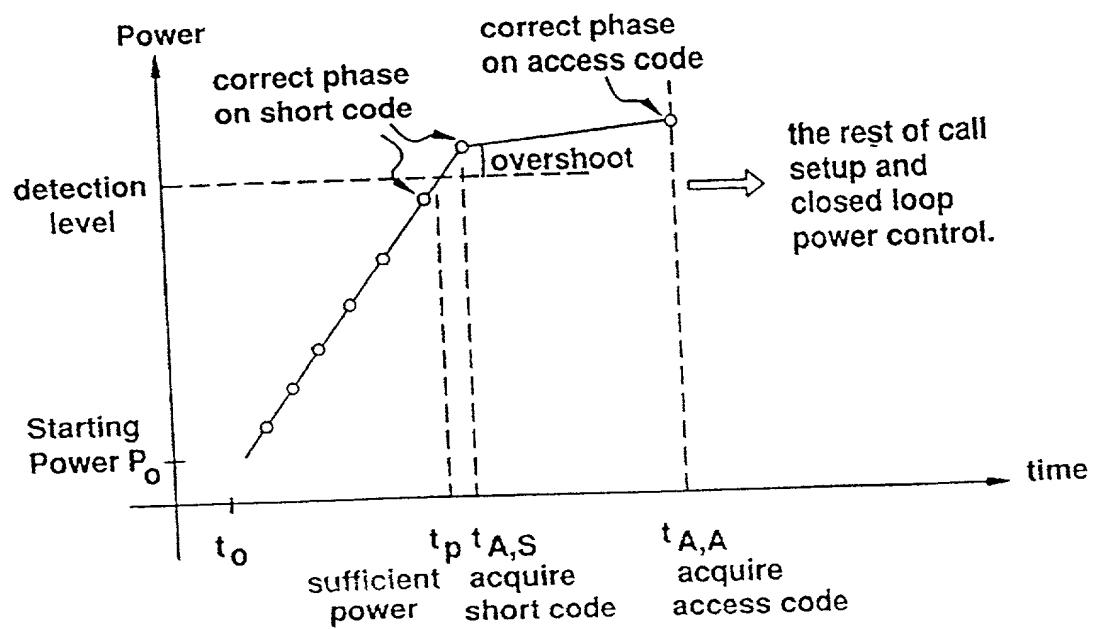


FIG. 38

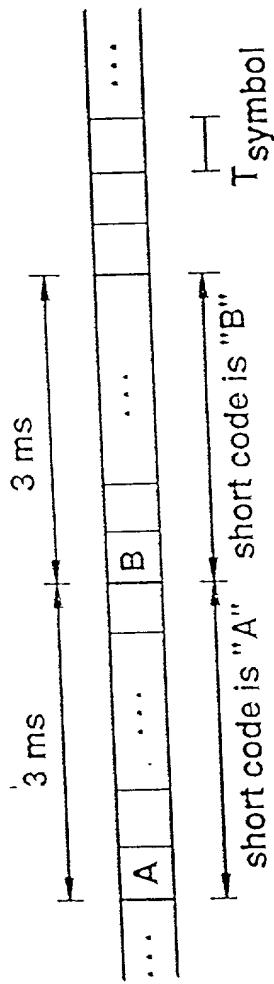


FIG. 39

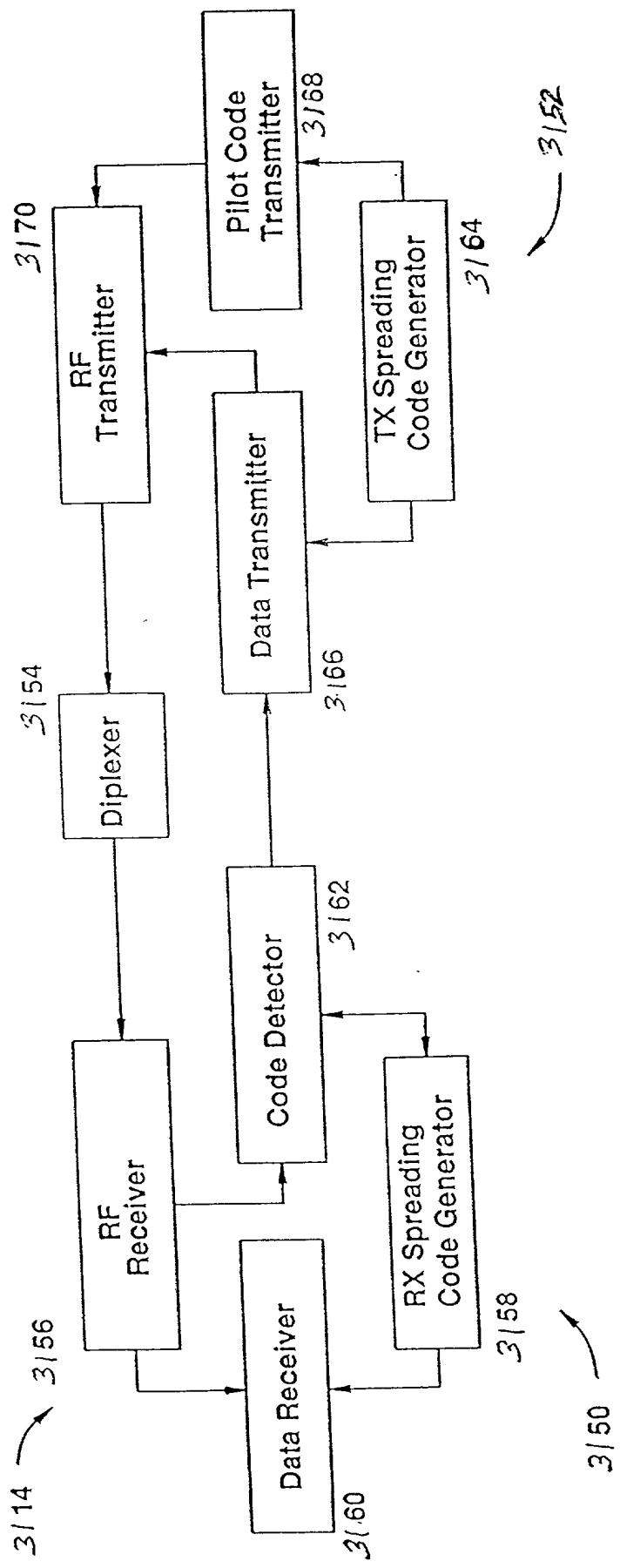


FIG. 40

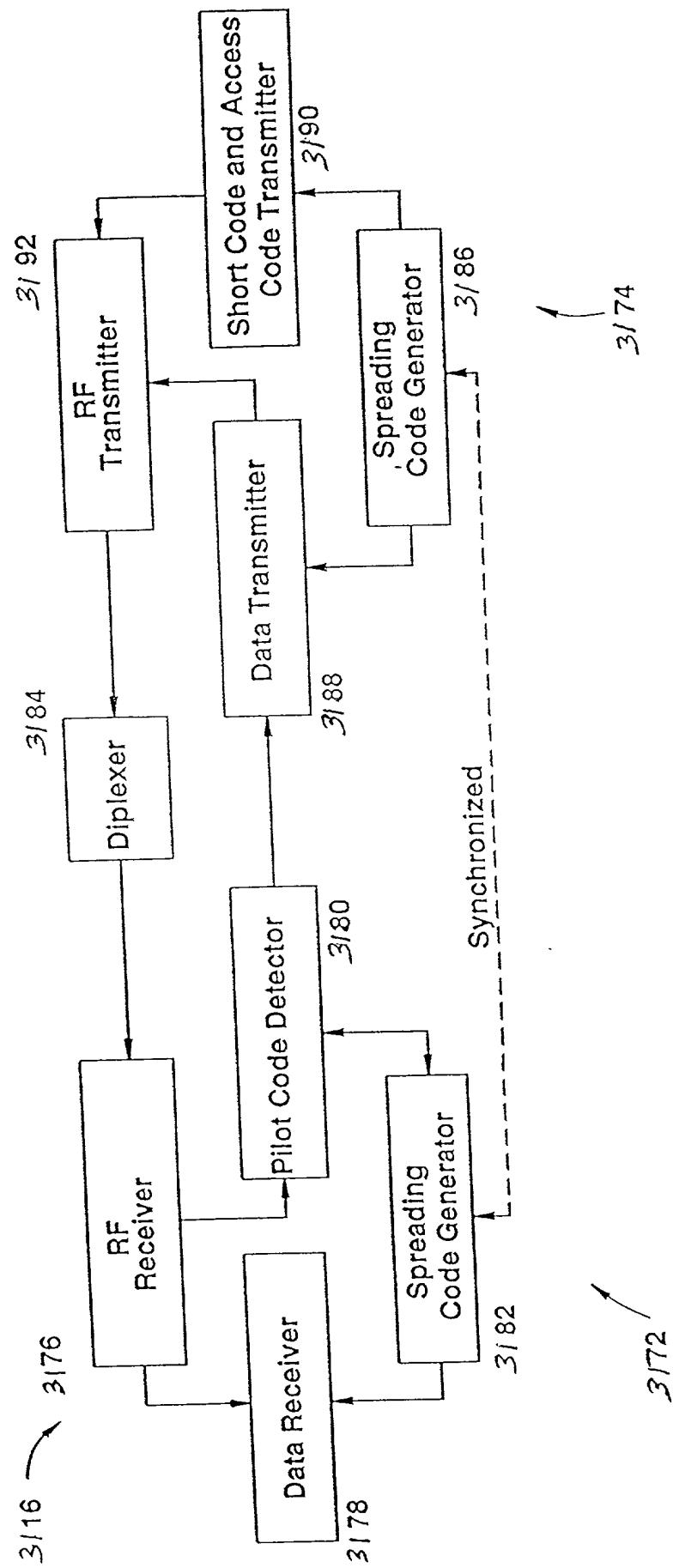


FIG.41A

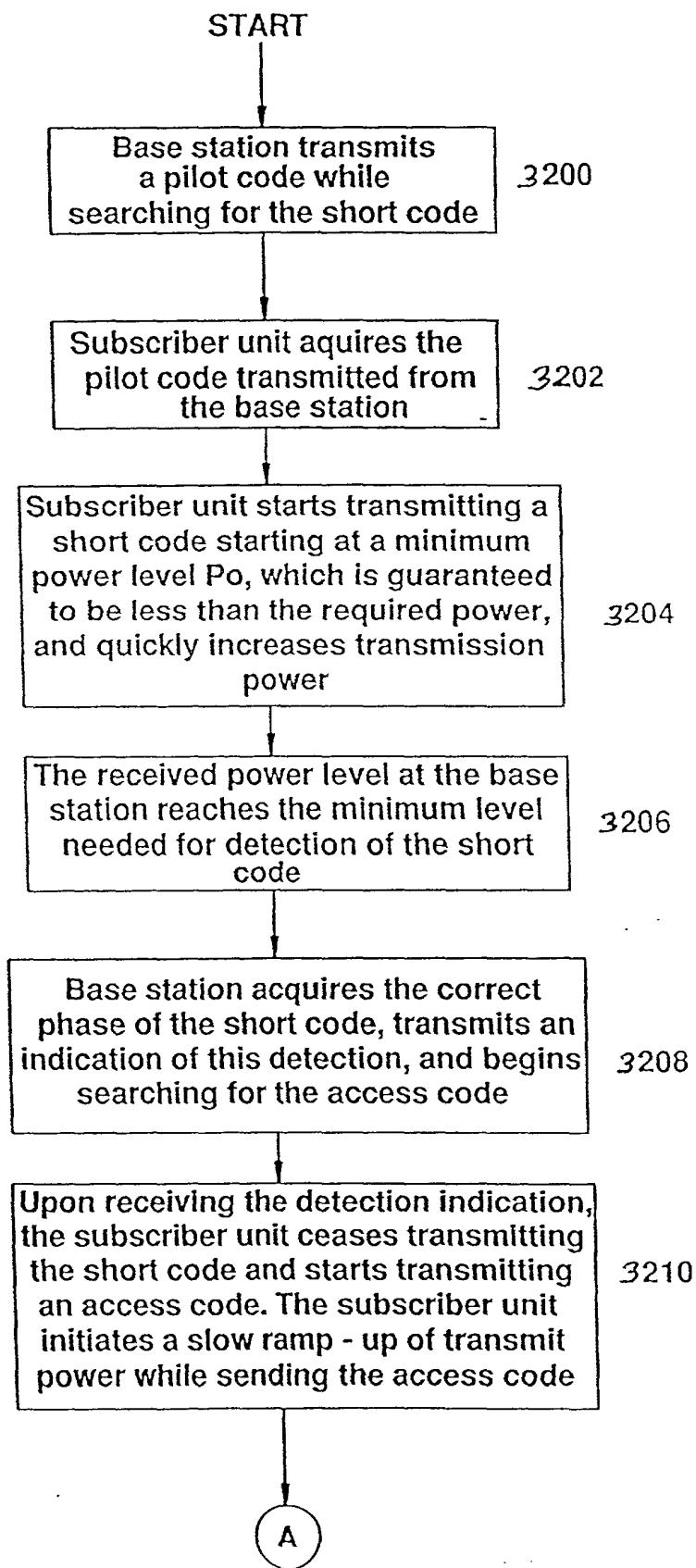


FIG.41B

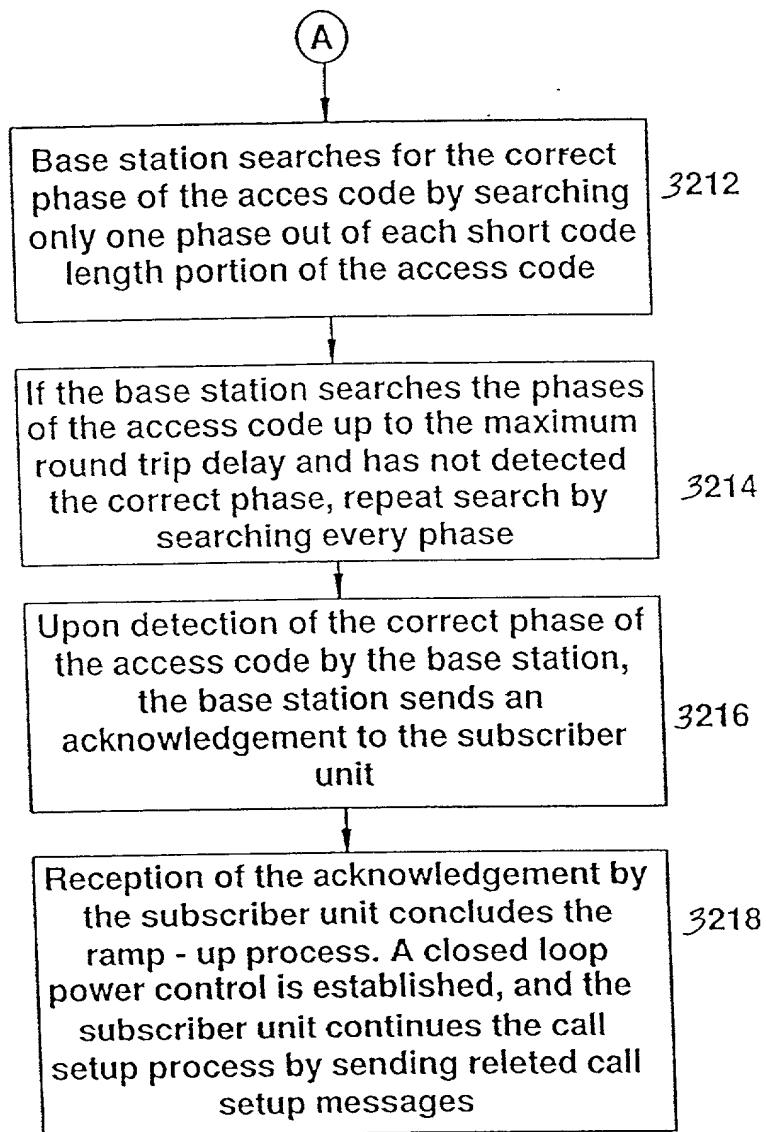


FIG. 42
(PRIOR ART)

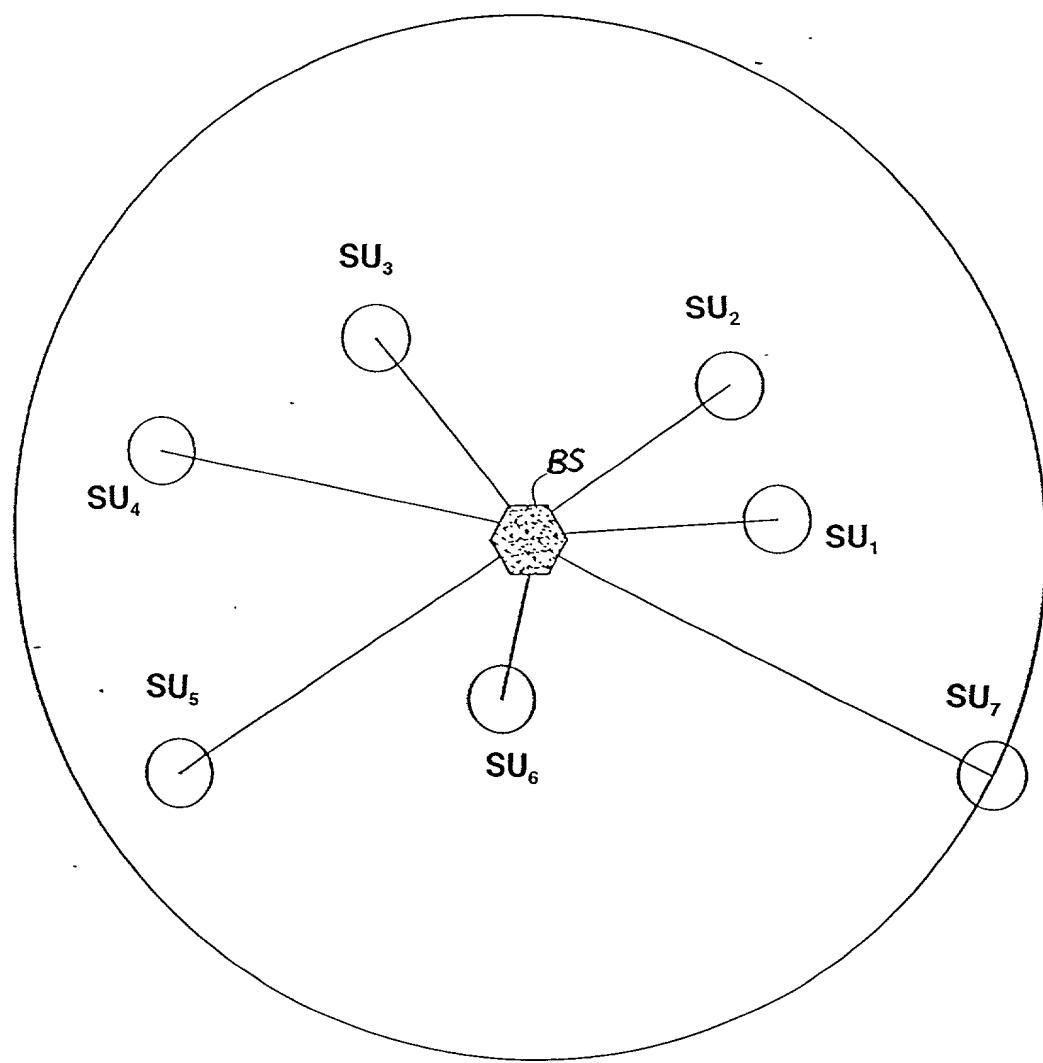


FIG. 43
(PRIOR ART)

Mean Cell Sweep Time, FSU @ 20 KM

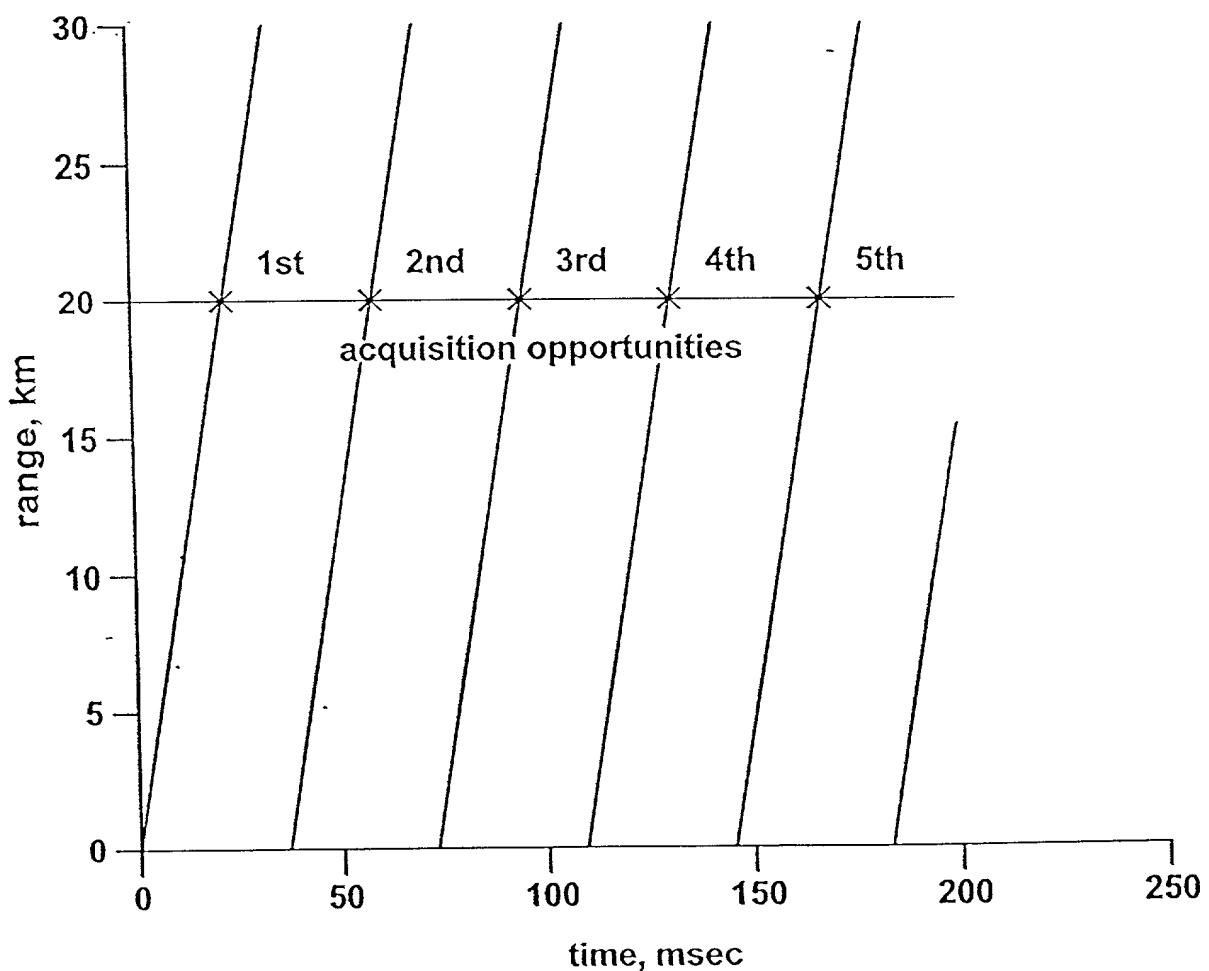


FIG. 44

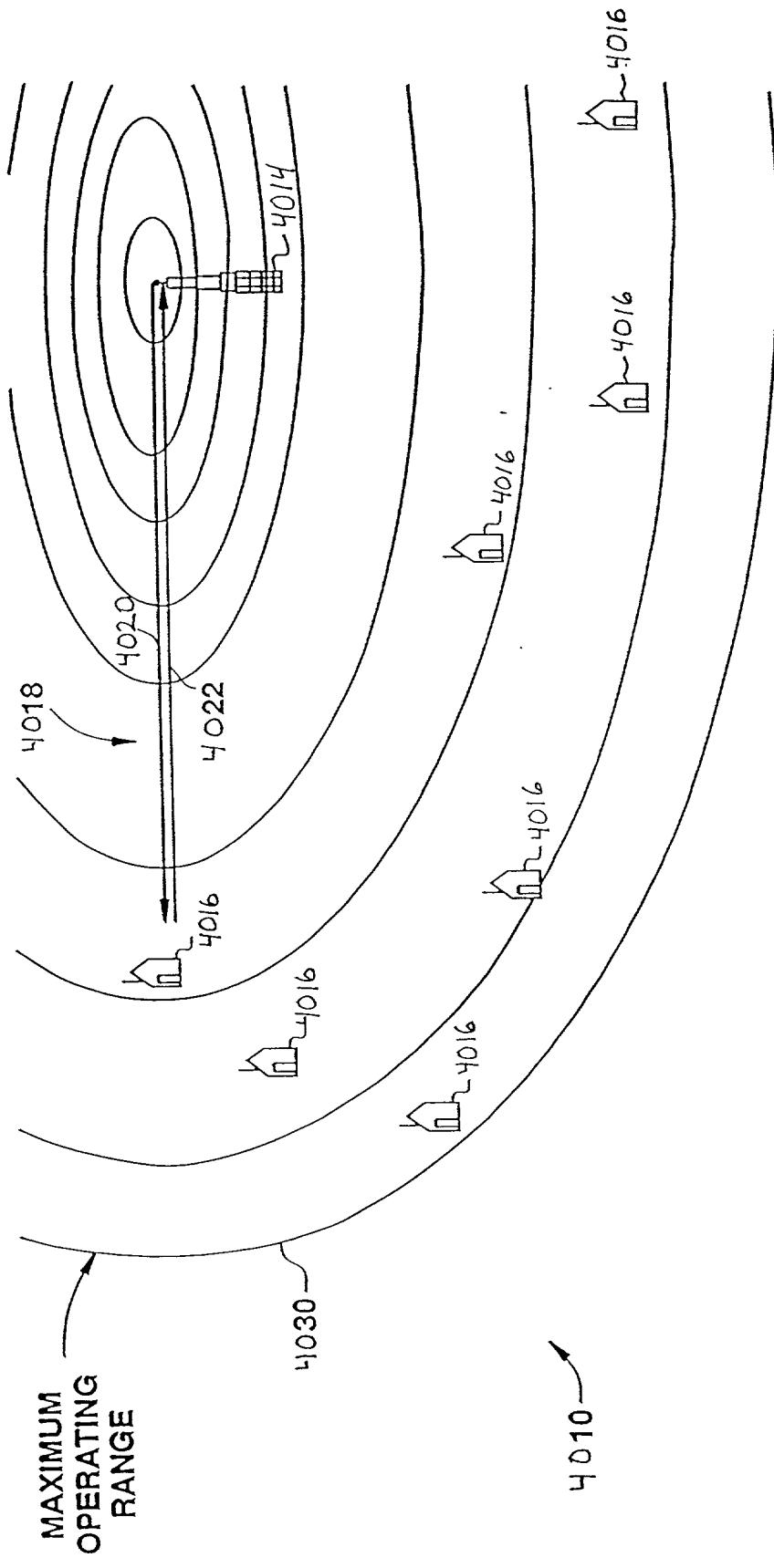


FIG. 45

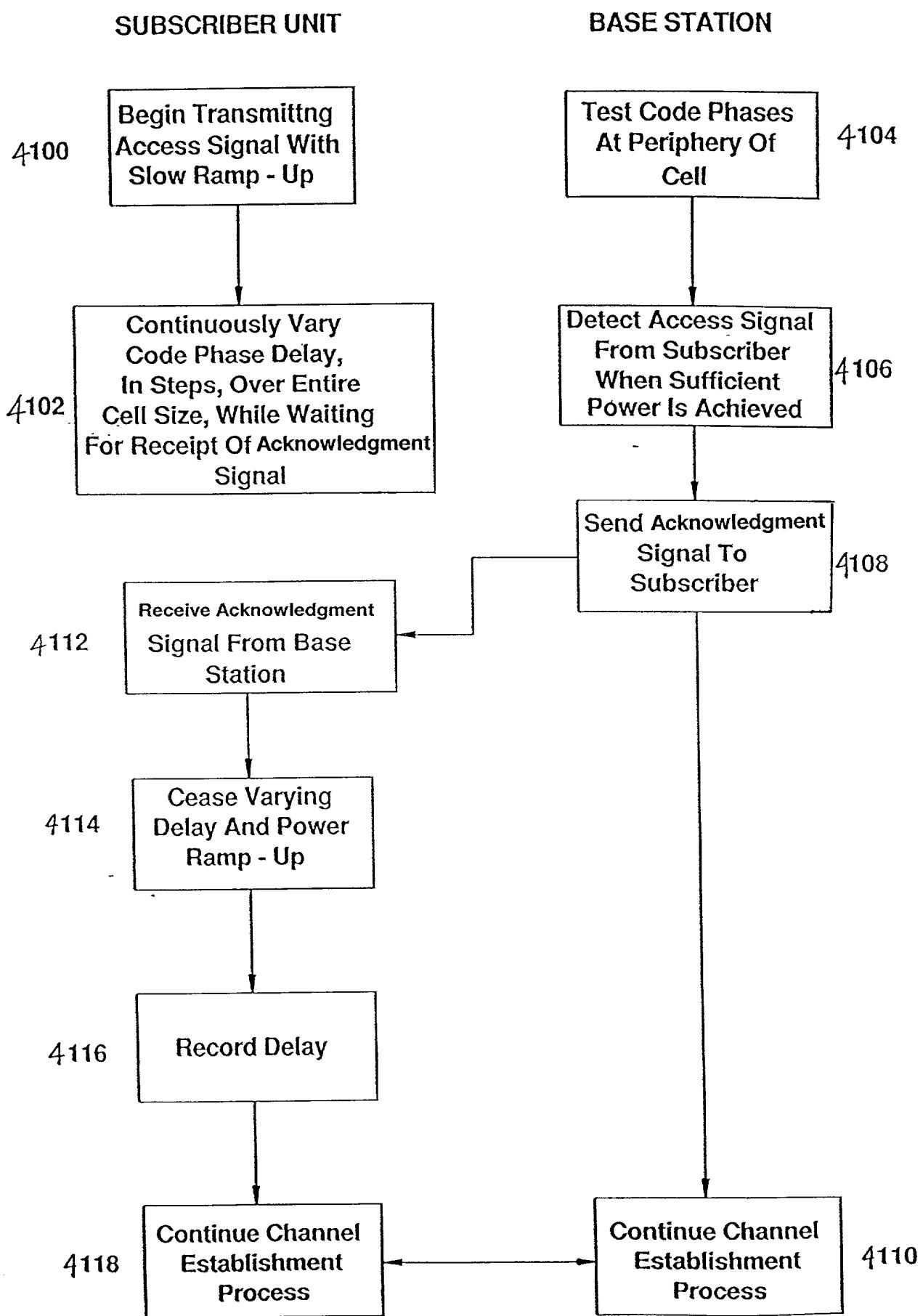


FIG. 46

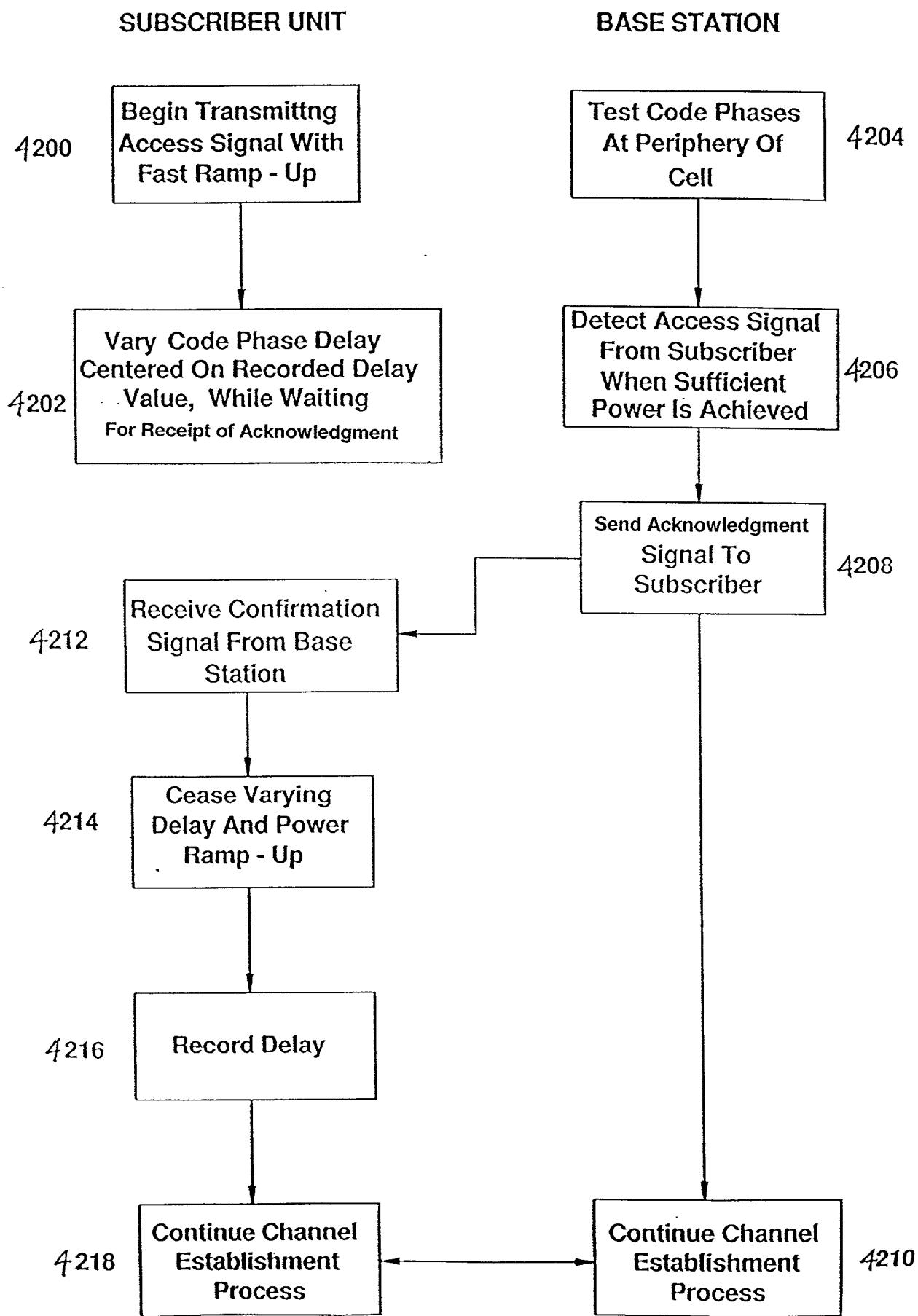


FIG. 47

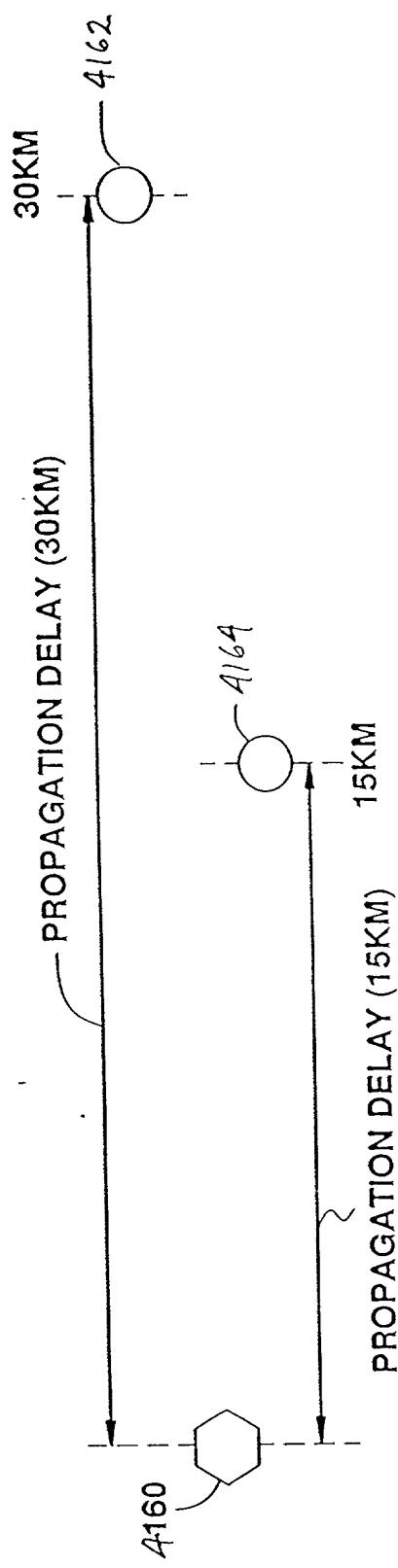


FIG. 48

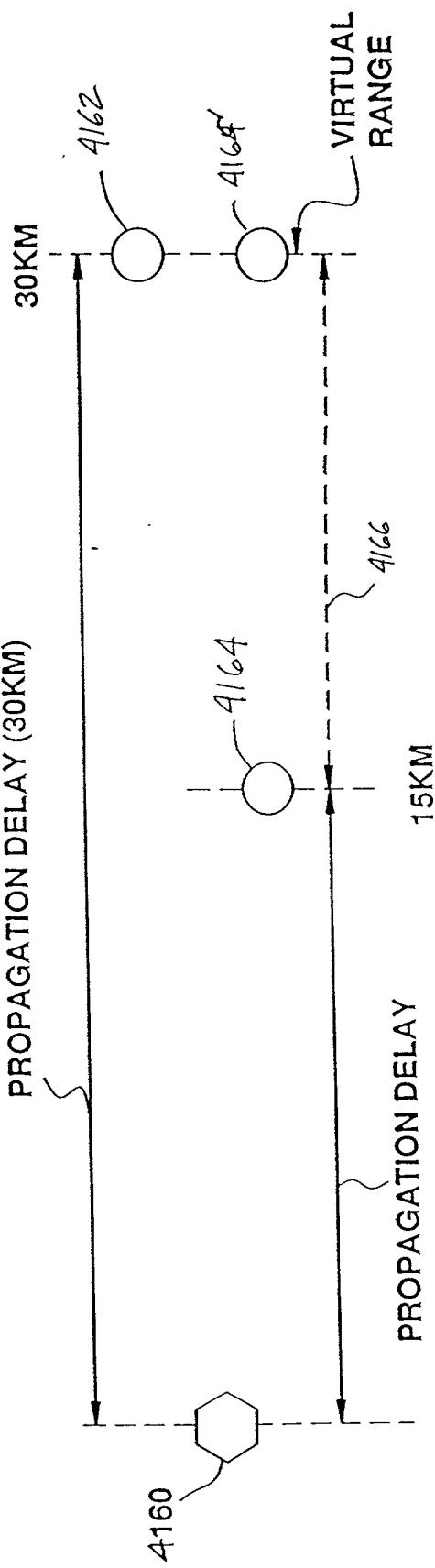


FIG. 49

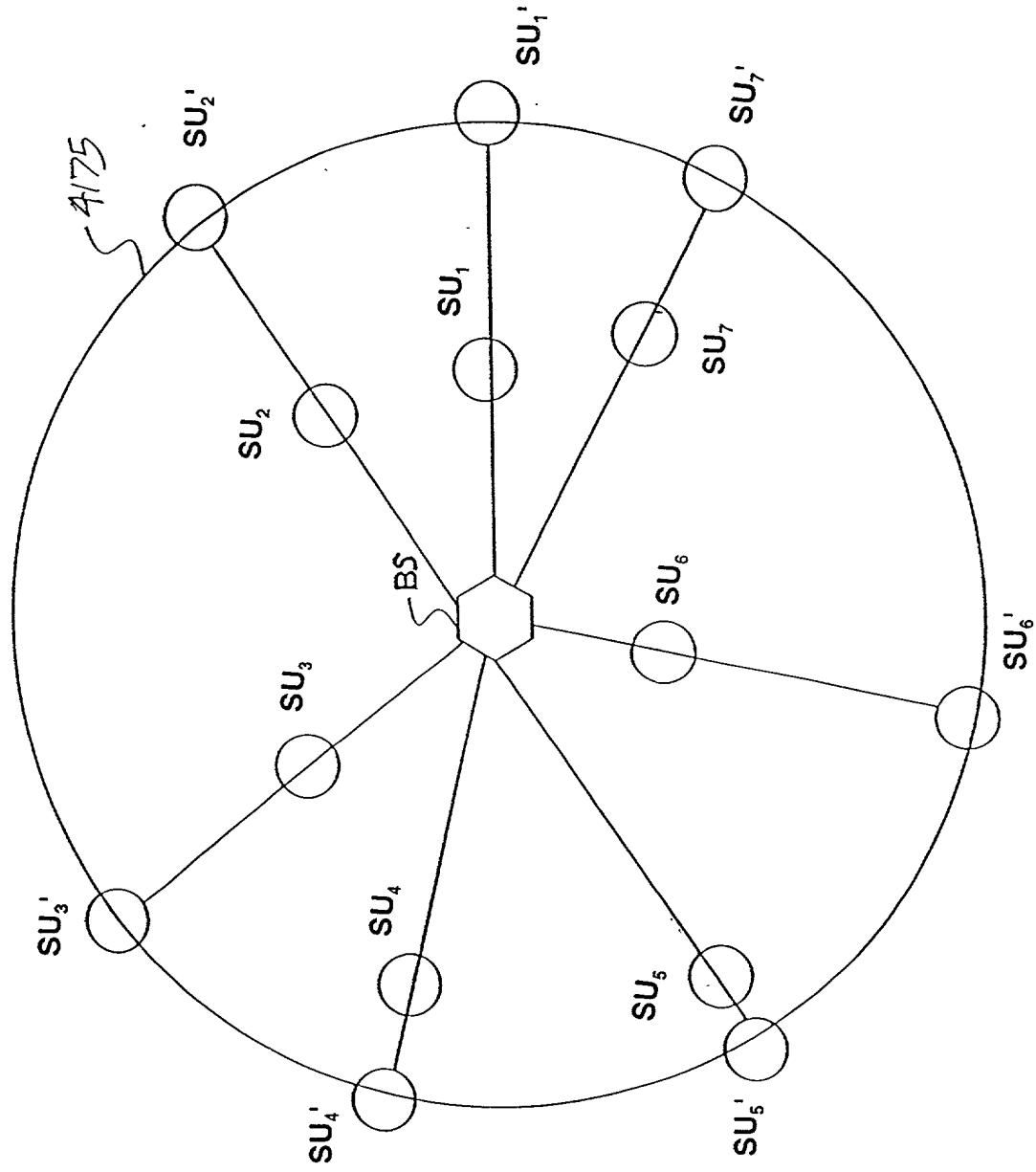


FIG. 50

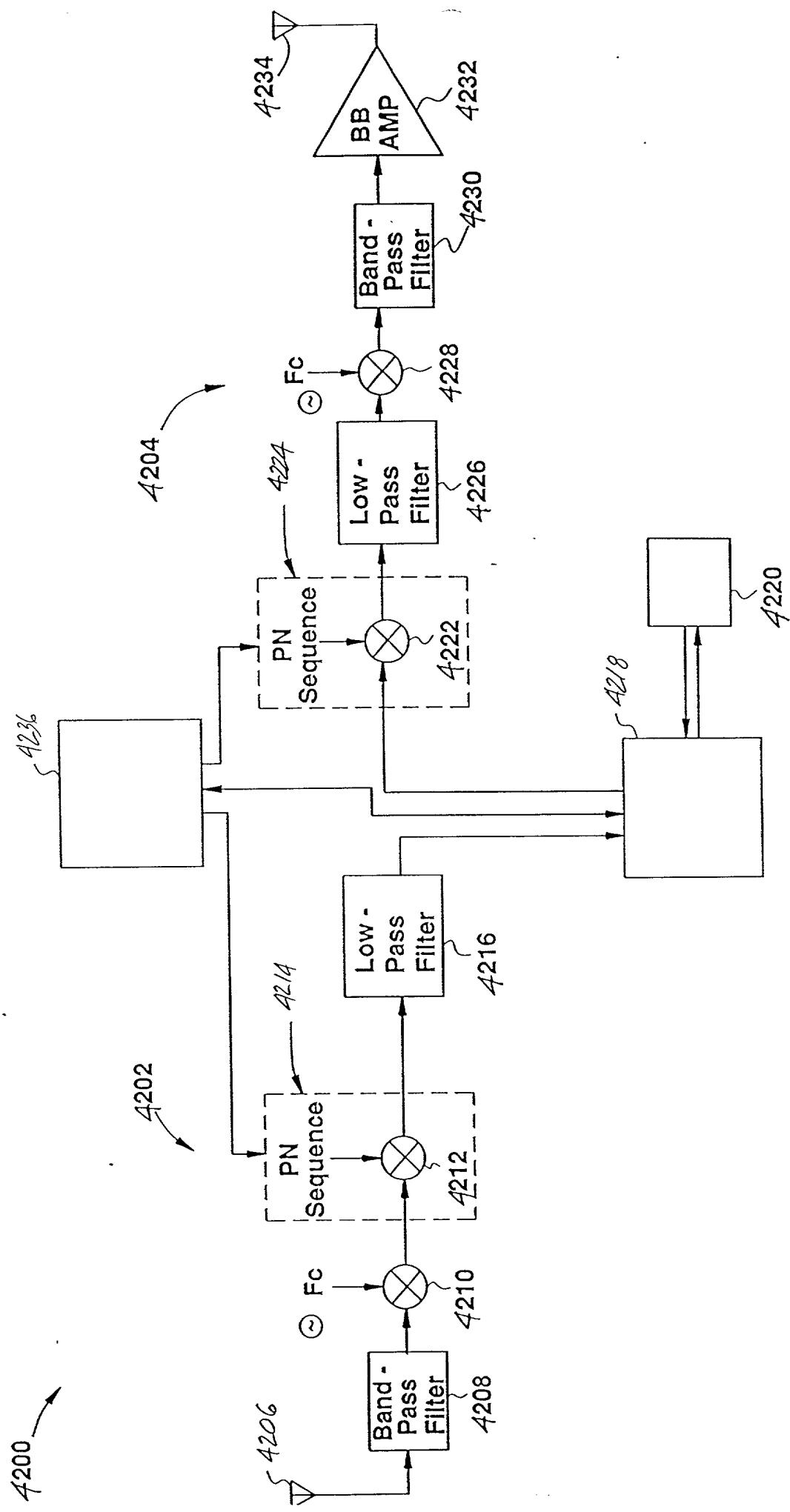


FIG. 51

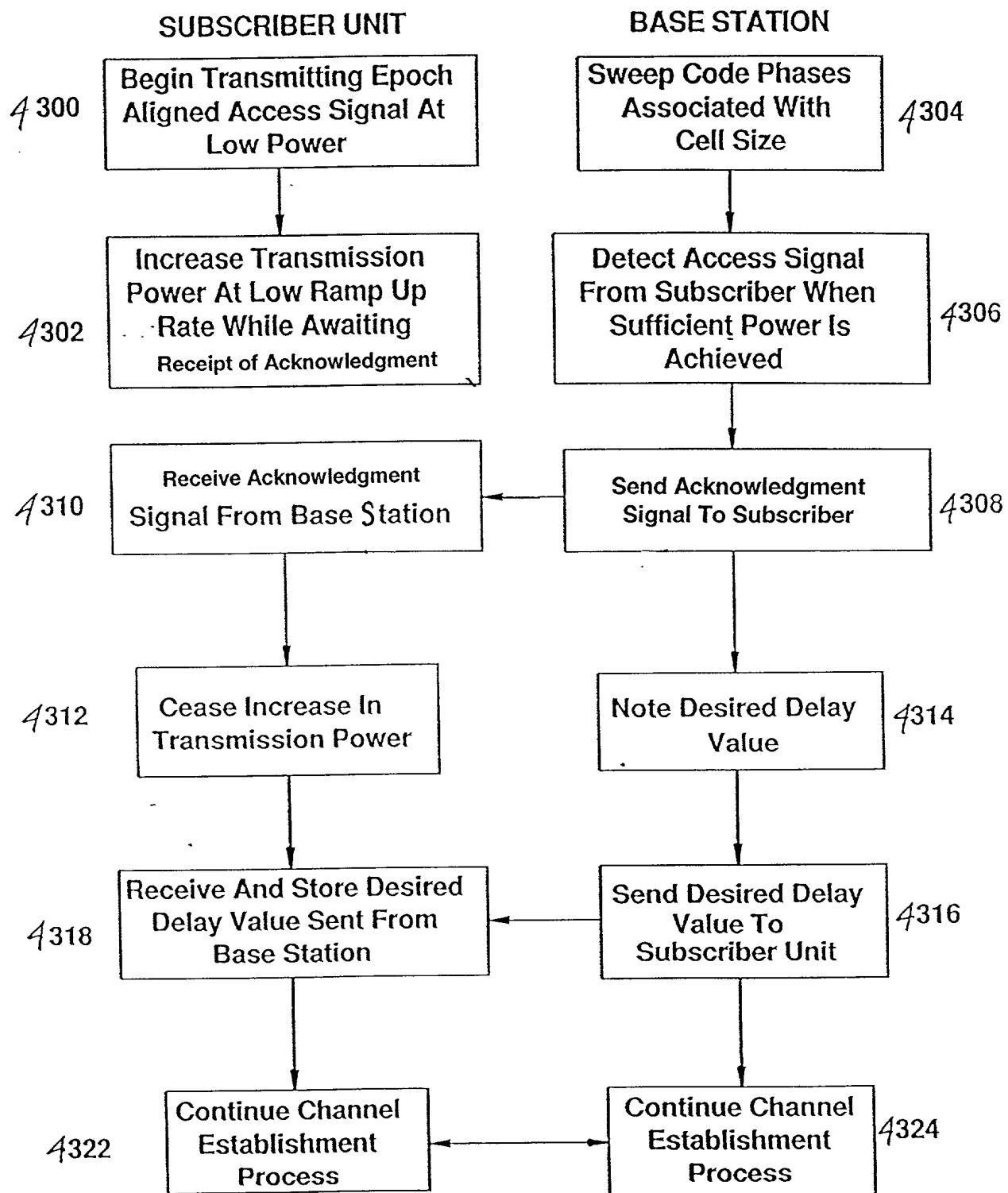


FIG.52

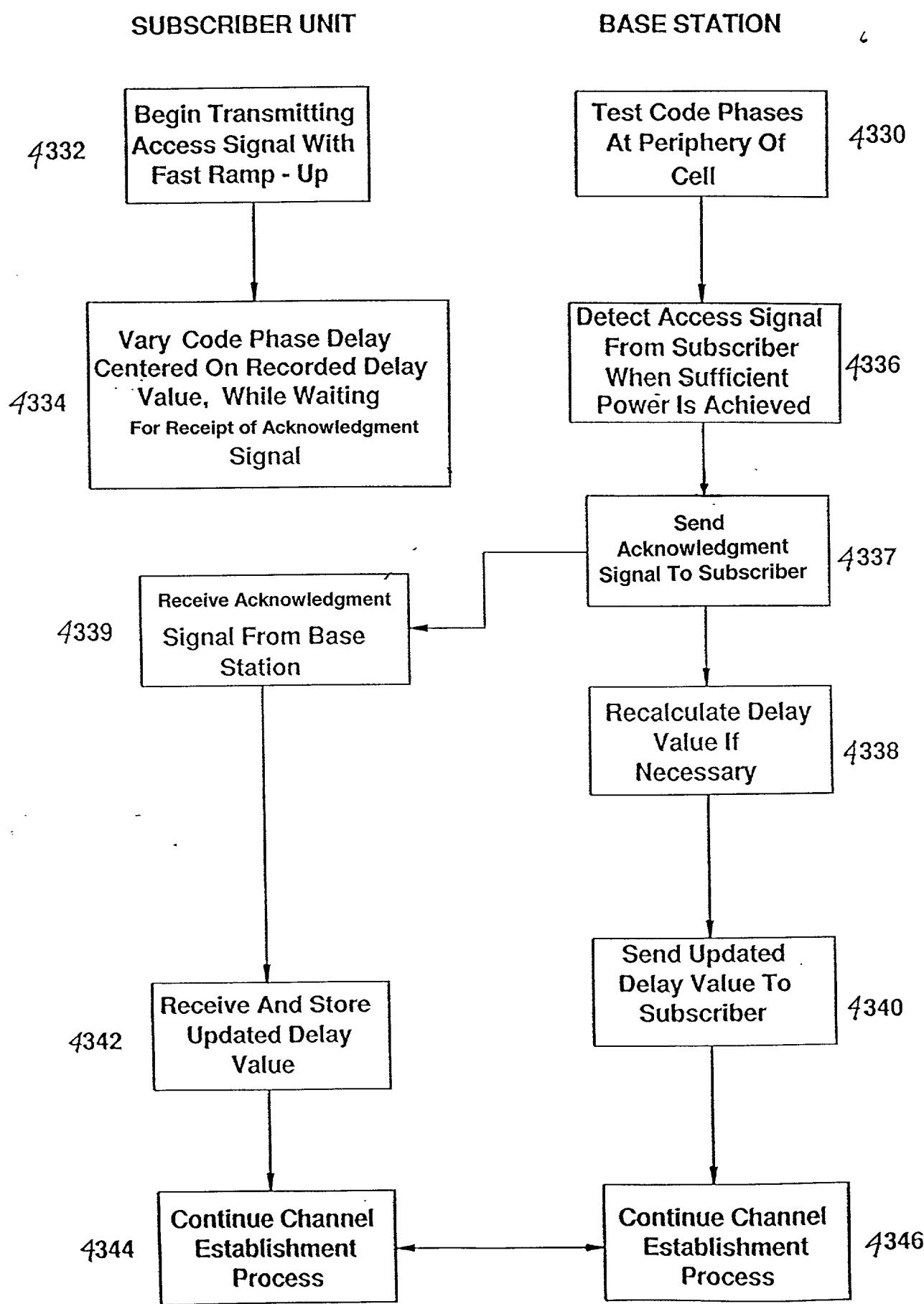


FIG.53

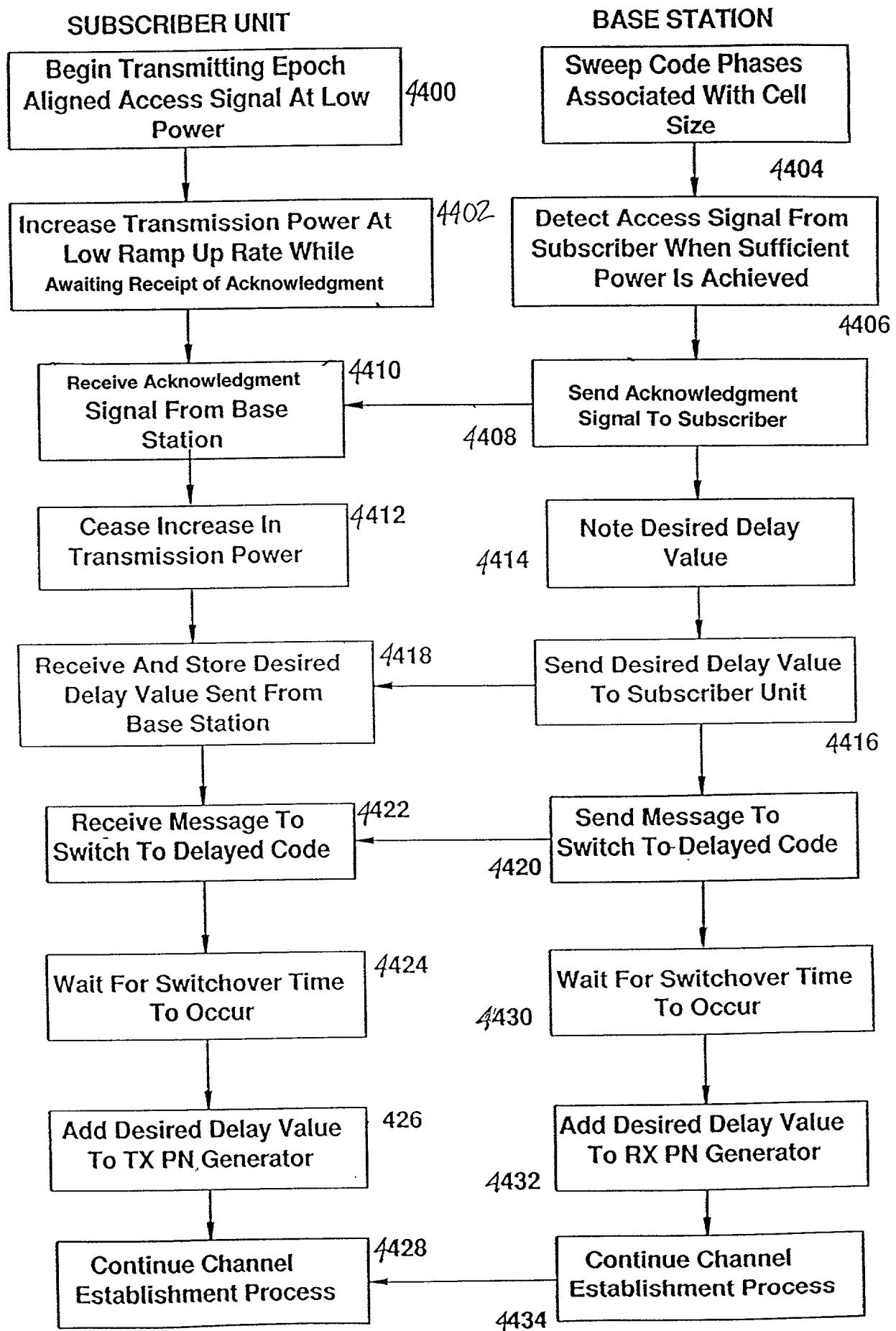


FIG. 54
PRIOR ART

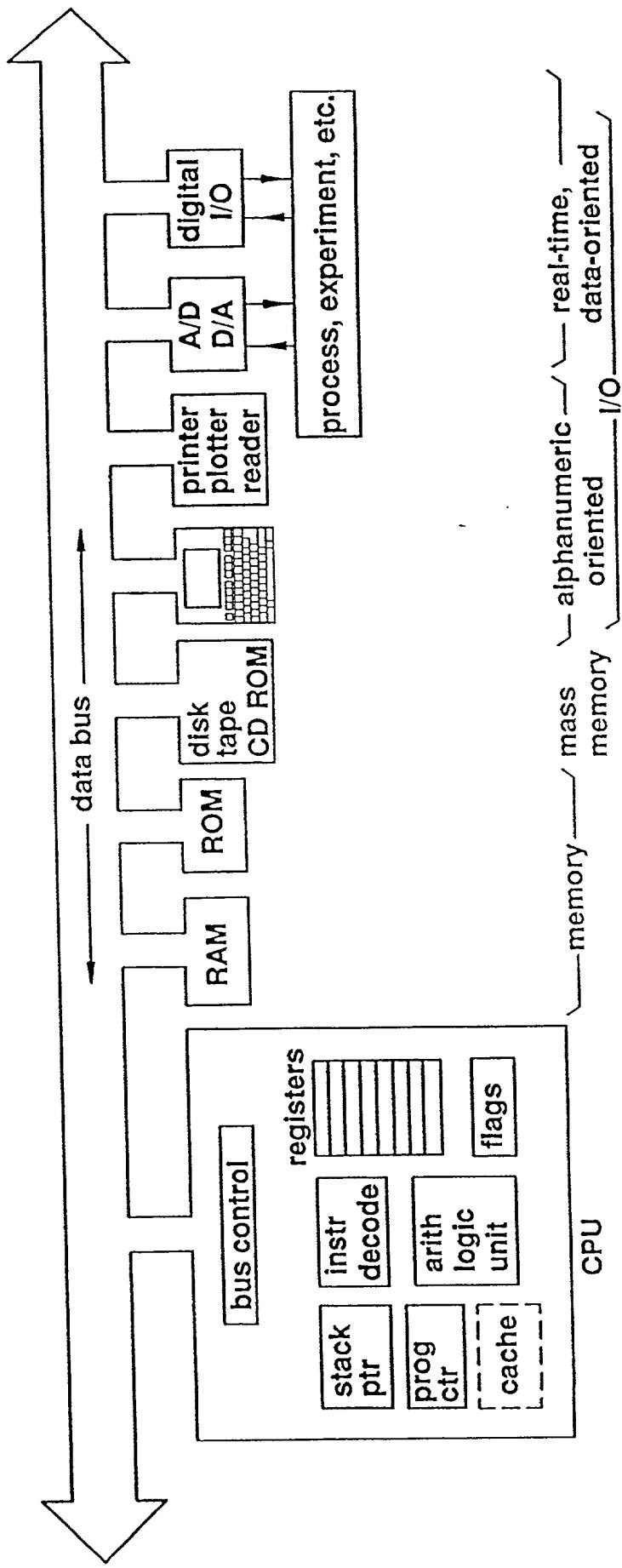


FIG. 55
PRIOR ART

BUS	RAW bandwidth (Mbyte/s)	Data width	Address width	Drivers	Connector ^b	Comments	
STD bus		8	16	—	S 1	TTL	CE controller-type applications
PC/XT	1.2	8	20	—	S 5E	TTL	CE original IBM PC & compatibles
PC/AT	5.3	8,16	20,24	—	S 10E	TTL	CE accepts PC/XT cards
EISA	33	8,16,32	20,24,32	•	S 11P	TTL	CE enhanced PC/AT; auto-configure
MicroChannel	20	8,16,(32)	24,(32)	•	•	A 11	CE IBM PS/2; auto-configure
Q - bus	2	16	22	•	•	A 4	CE LSI-11, μVAX-I, II; daisy-chained IACK
Multibus I	10	8,16	20,24	—	•	A 8	CE Intel; SUN-I and others
CAMAC	3	24	9	—	—	TTL/OC	CE data acquisition & control bus
VAX BI	13.3	8,16,24,32	32	•	•	S L	ZIF VAX 780, 8600 series; parity
Multibus II	40	8,16,24,32	16,32	•	•	S 4	TTL VAX parity; 40MB/s for blk xfer, 20M otherwise
NuBus	40	32	32	•	•	S M	DIN Macintosh II adds 1 dedicated INT per slot; ""
VME	40	8,16,32	16,24,32	—	•	A 7	DIN daisy-chained IACK; SUN-3
Futurebus	120	32	32	•	•	A —	(d)
Fastbus	160				M	ECL	H communication across many crates

(a) E-edge-sensitive; L-LAM ("look at me"); M—"int" via bus mastership;
P-programmable edge-or level-sensitive interrupts.

(b) CE-card-edge; DIN-2-part "Eurocard" 96-pin connector;
H-high density 2-part conn. (c) almost. (d) National Semi special.

FIG. 56

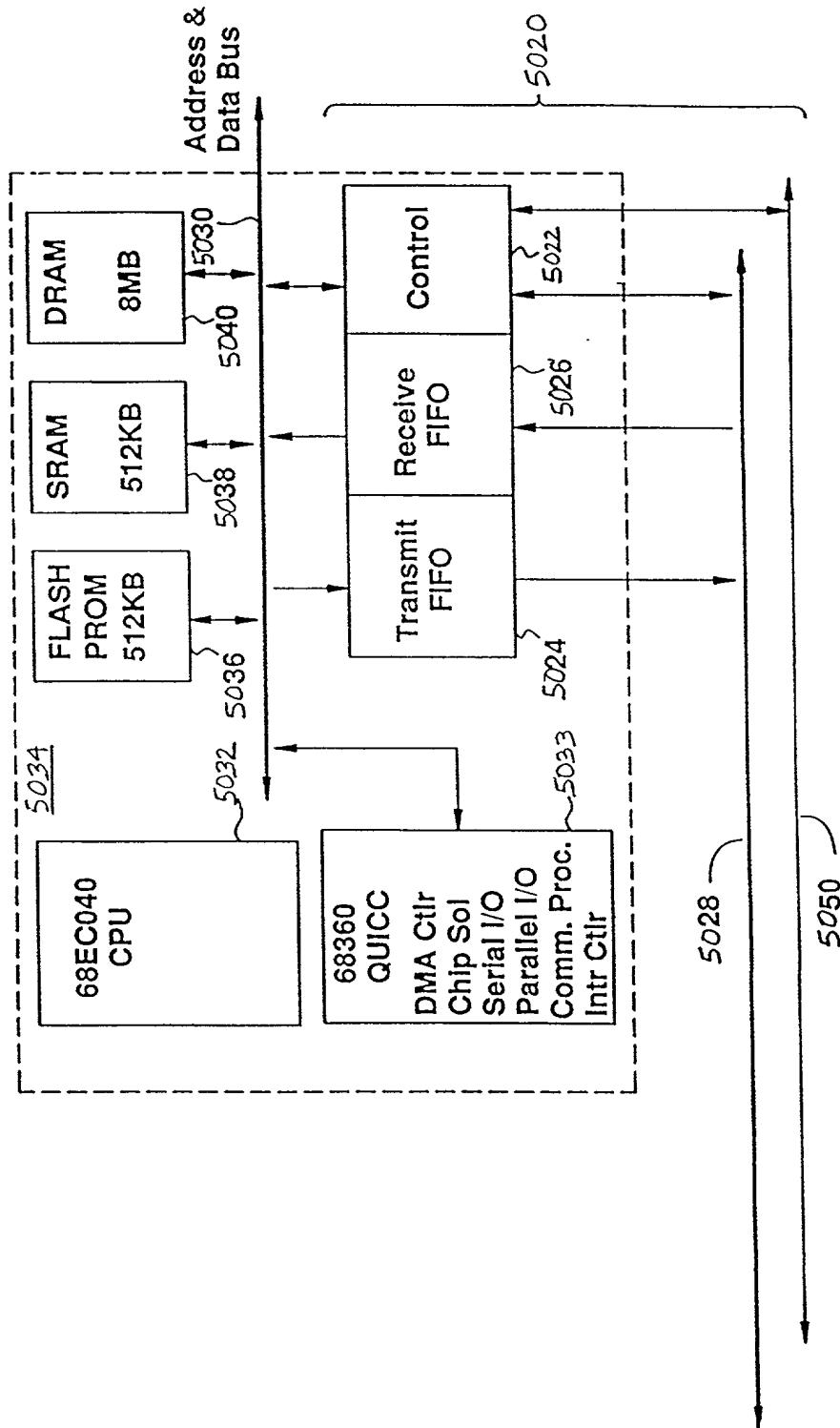


FIG. 57A

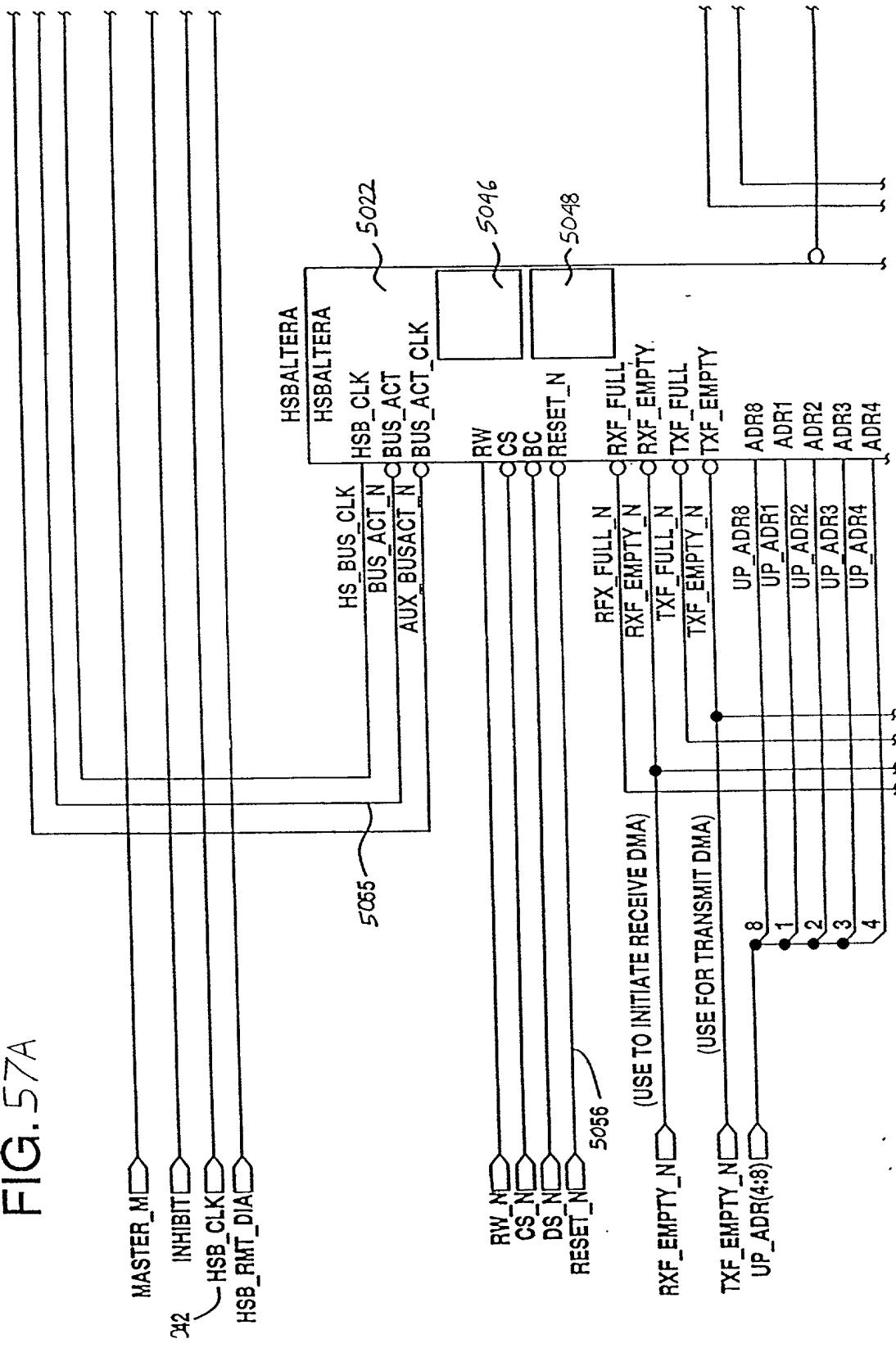


FIG. 57B

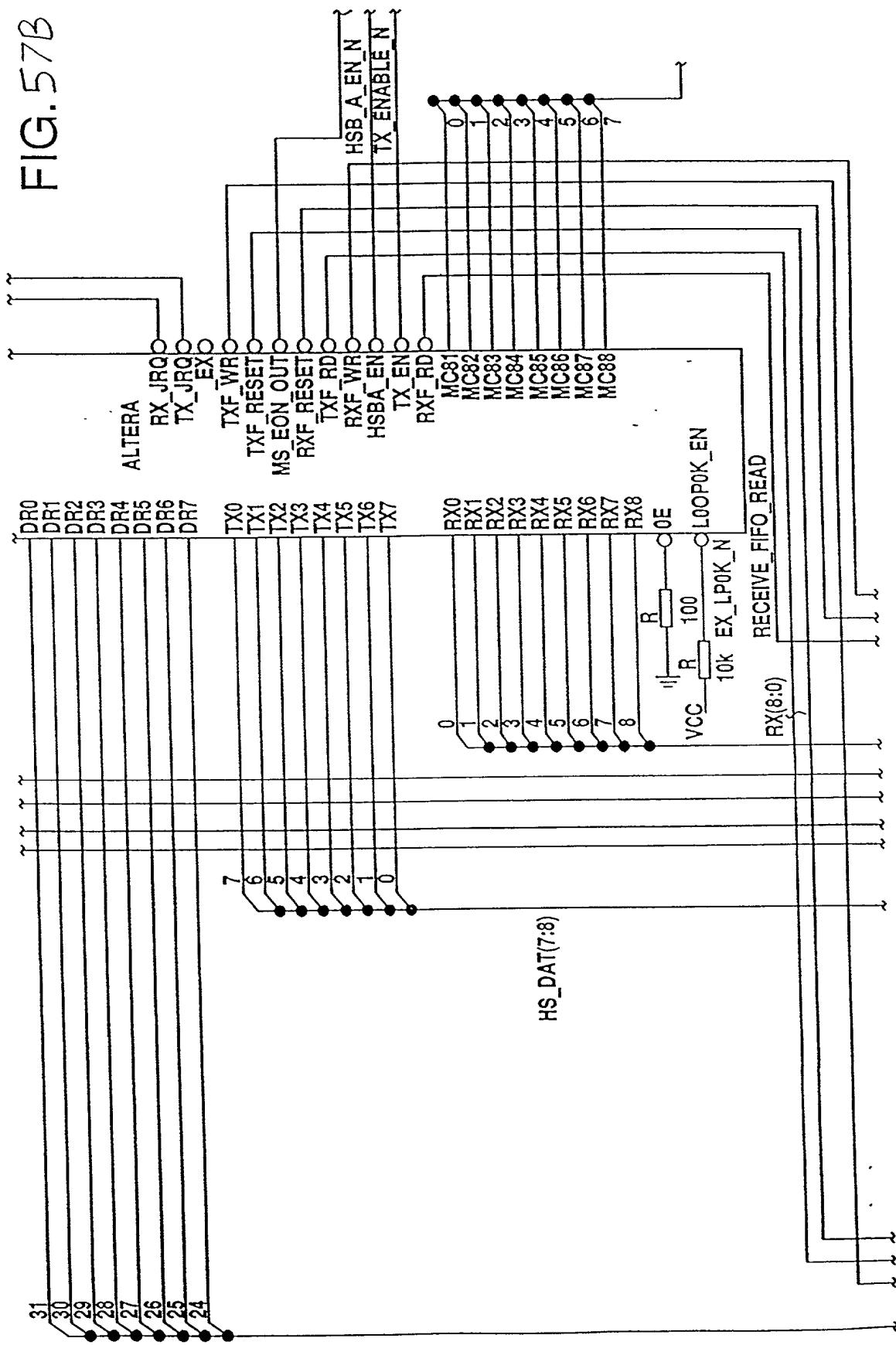


FIG. 57C

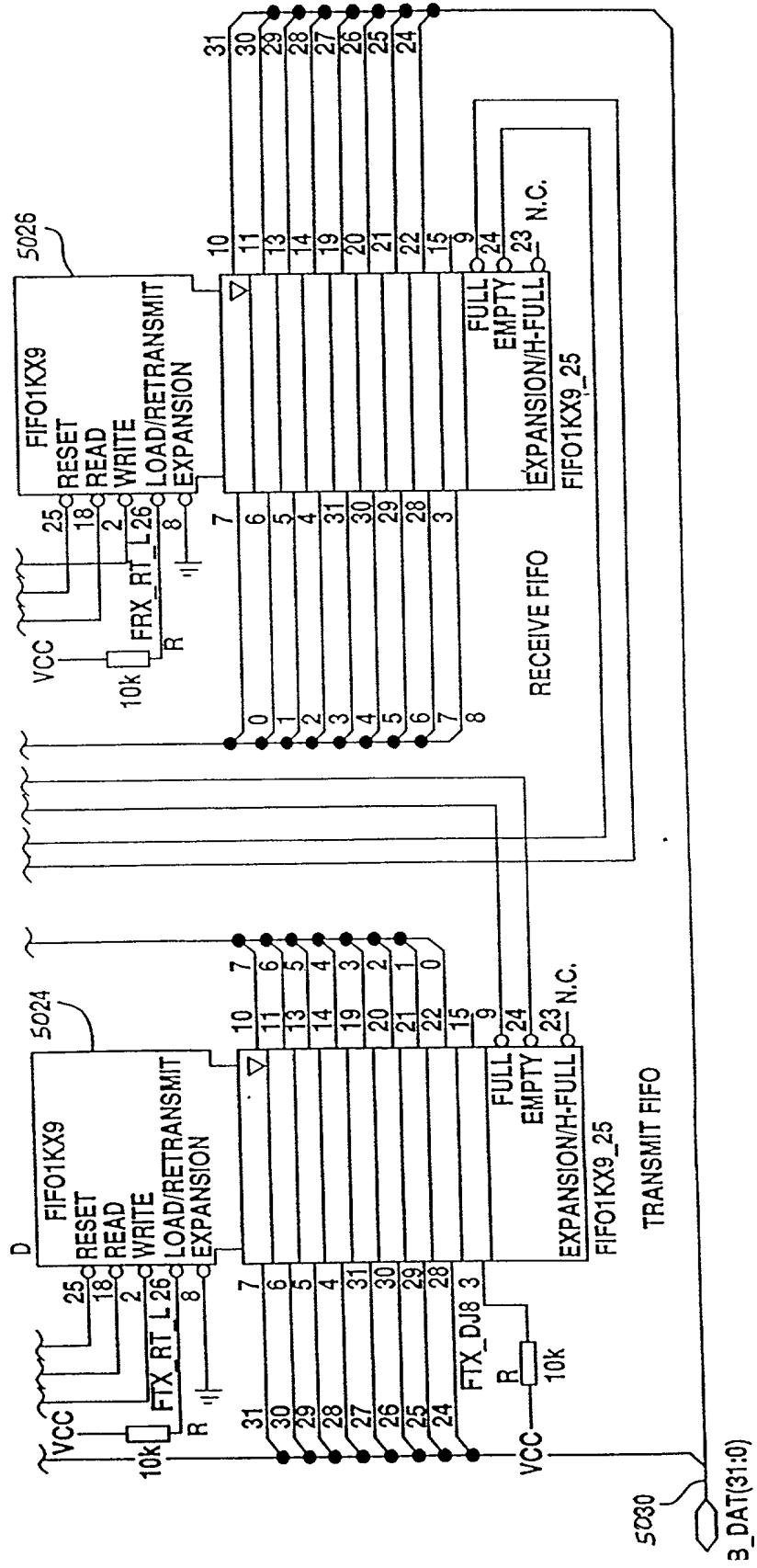


FIG. 57D

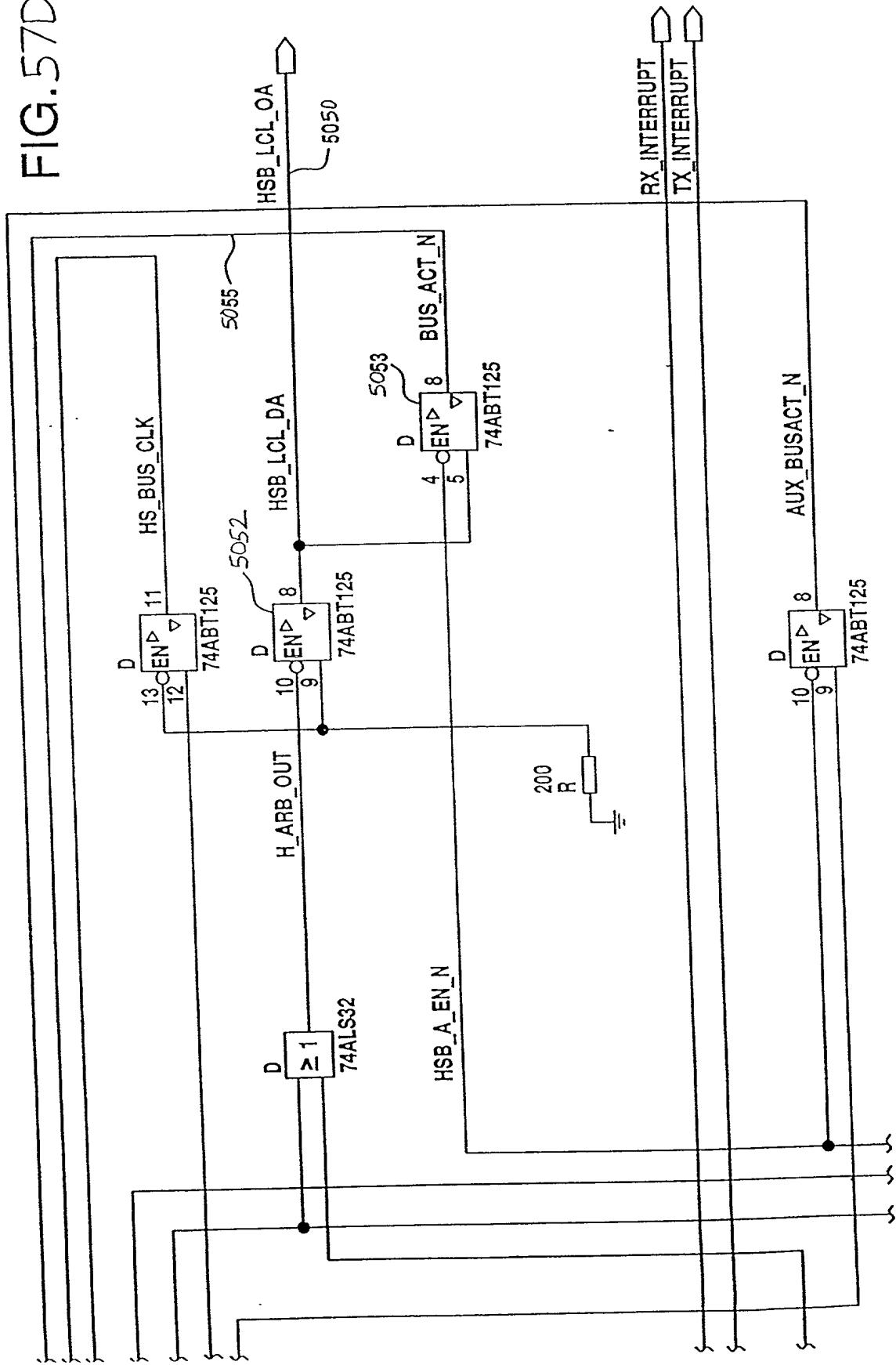


FIG. 57E

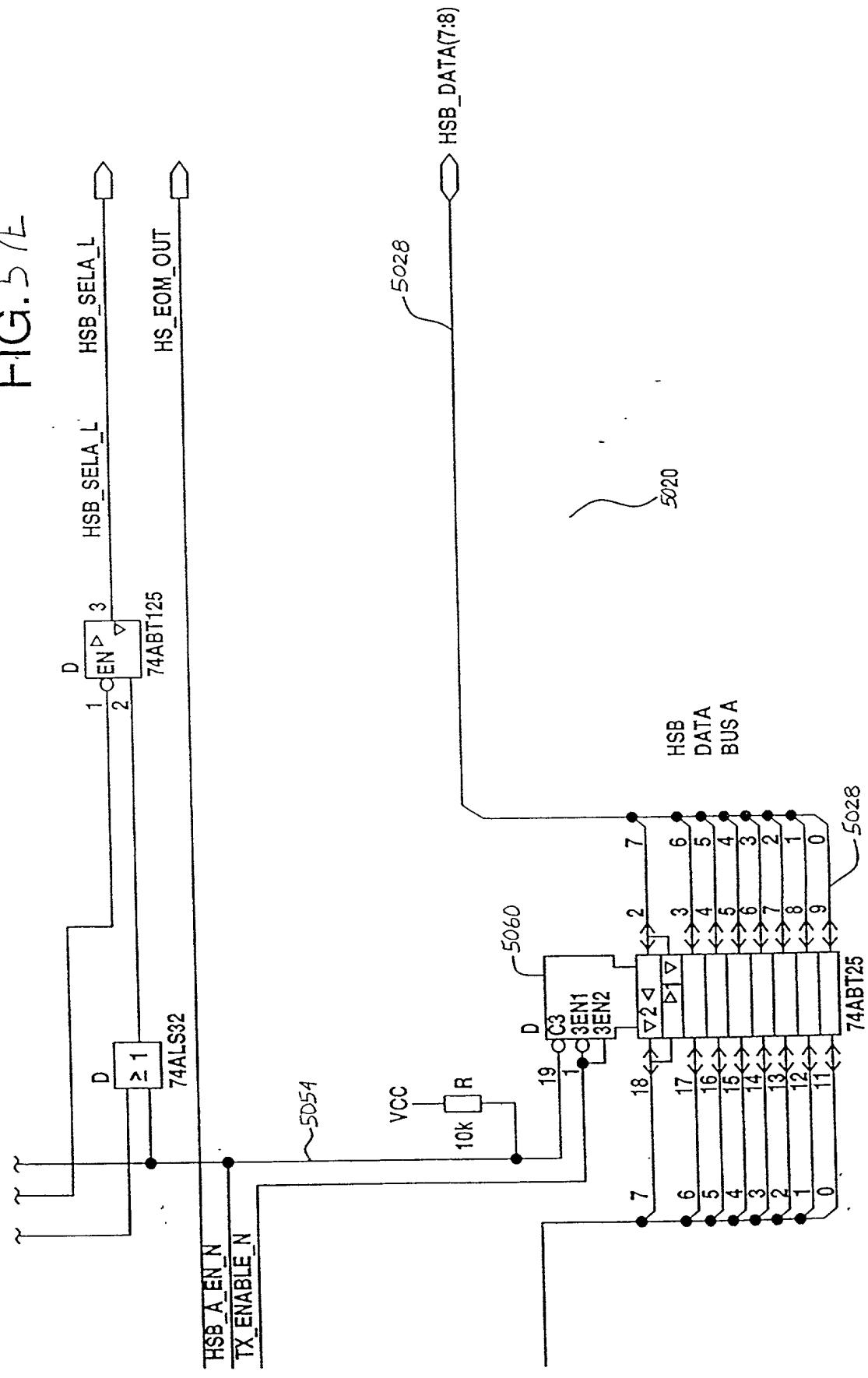


FIG. 58

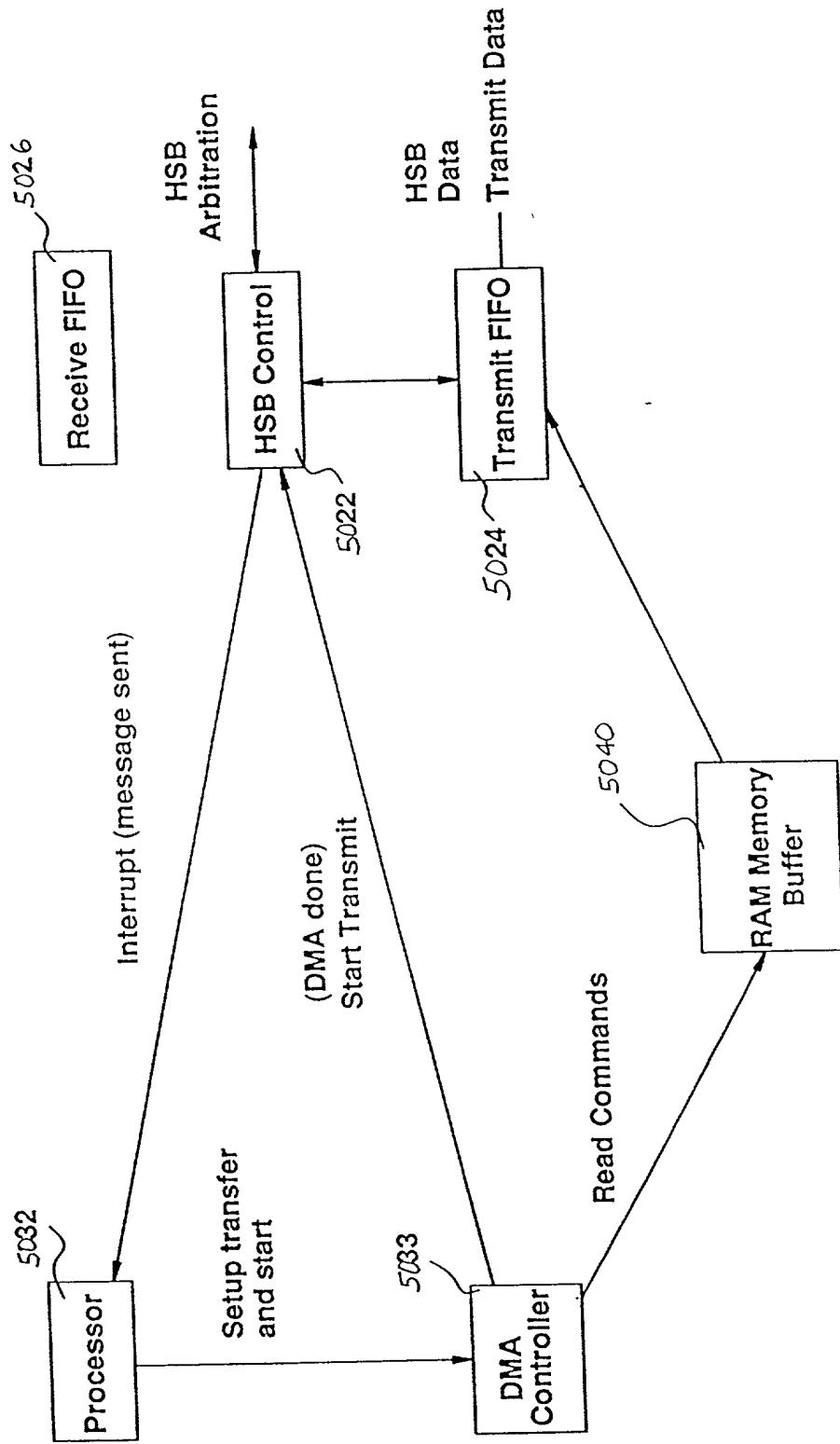


FIG. 59

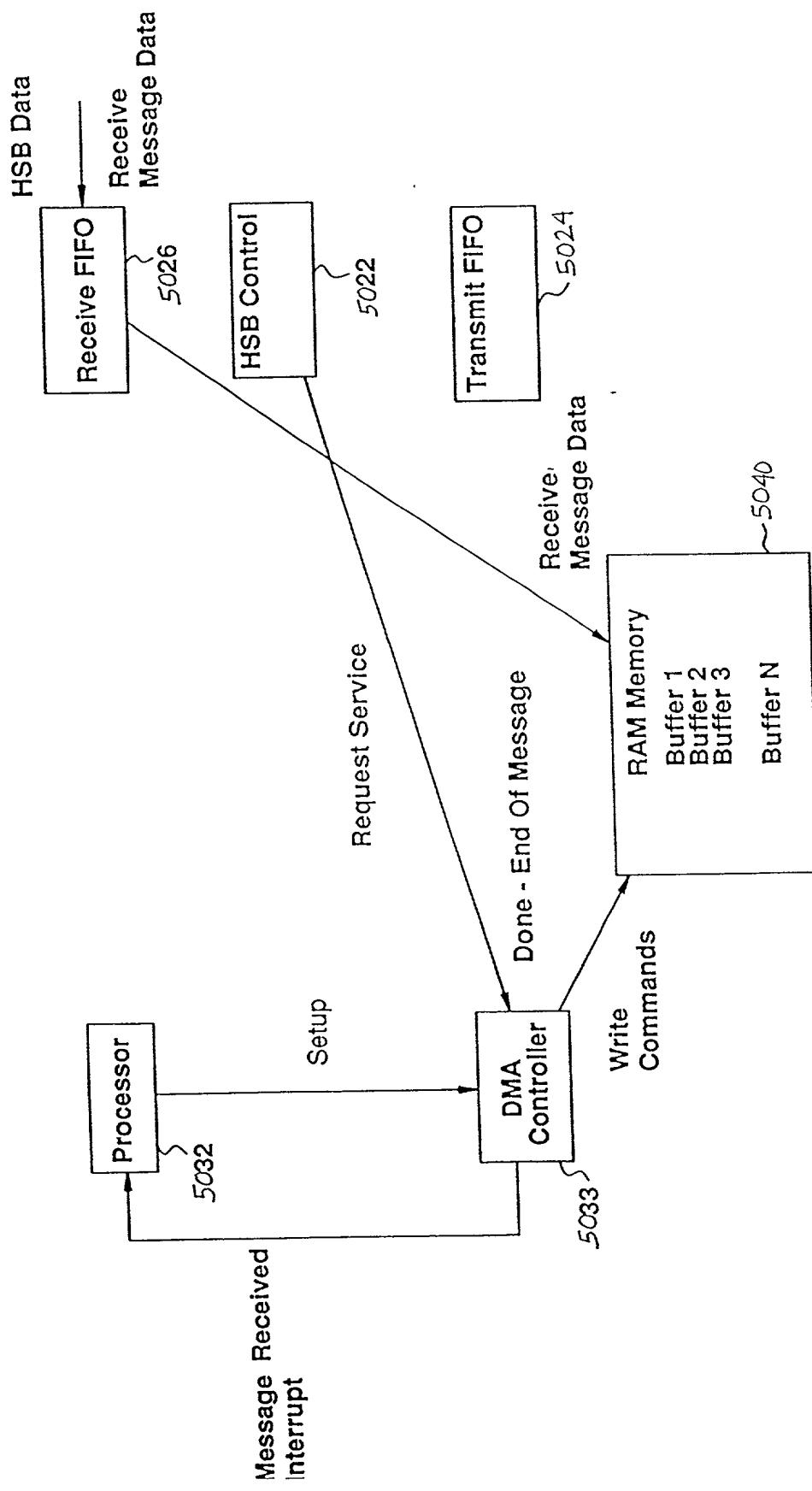


FIG. 60

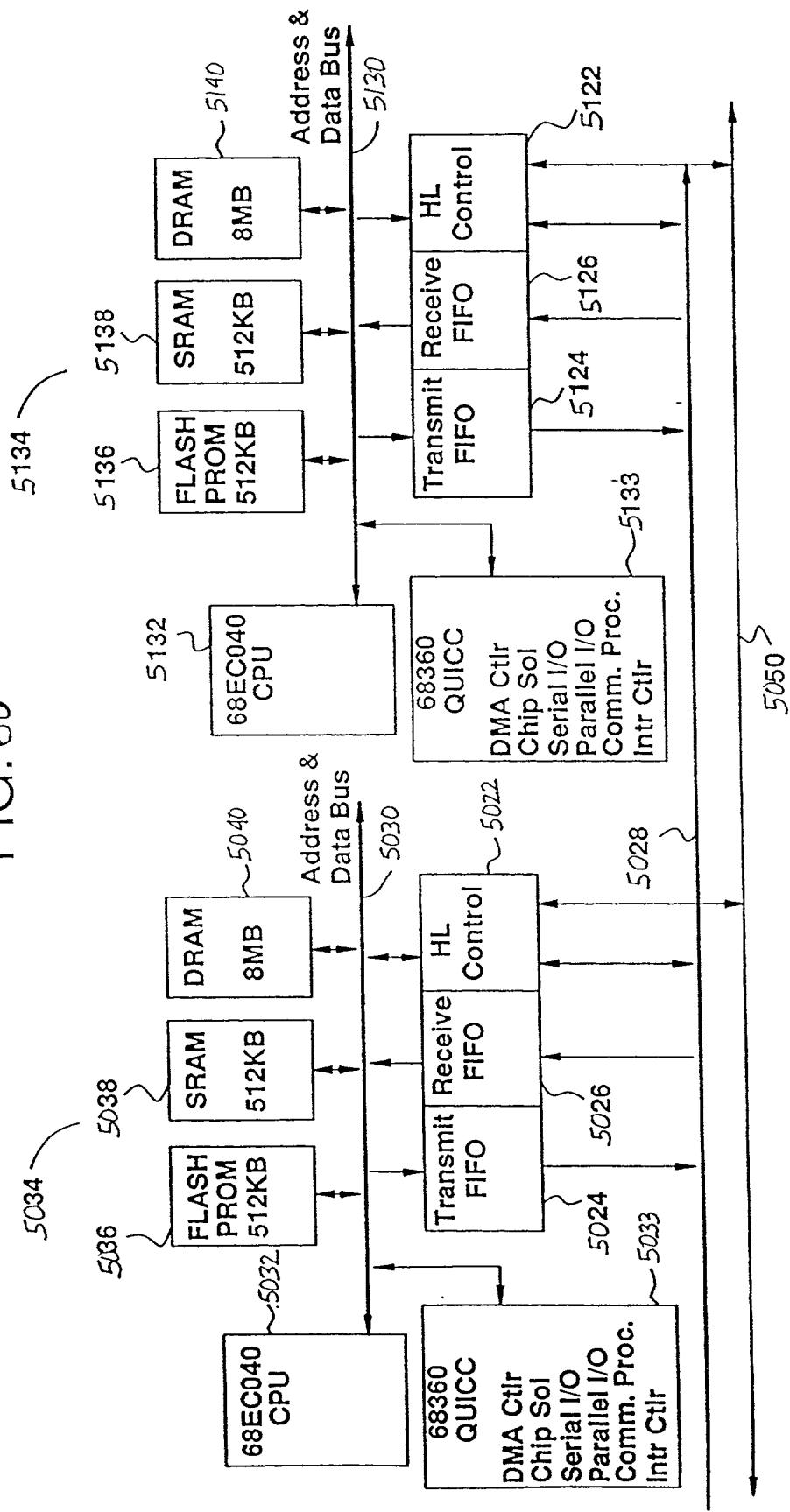


FIG. 61

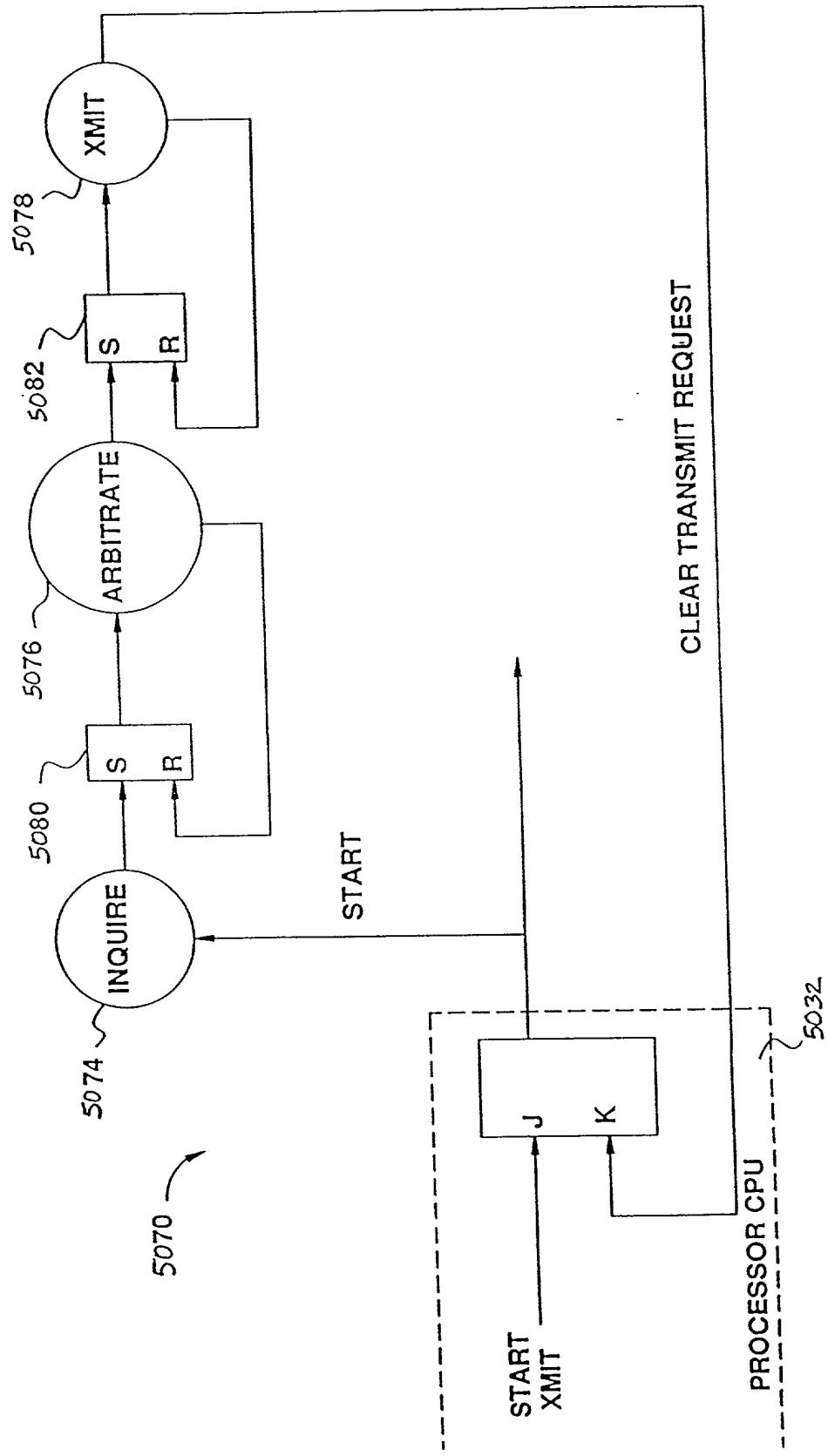


FIG. 62

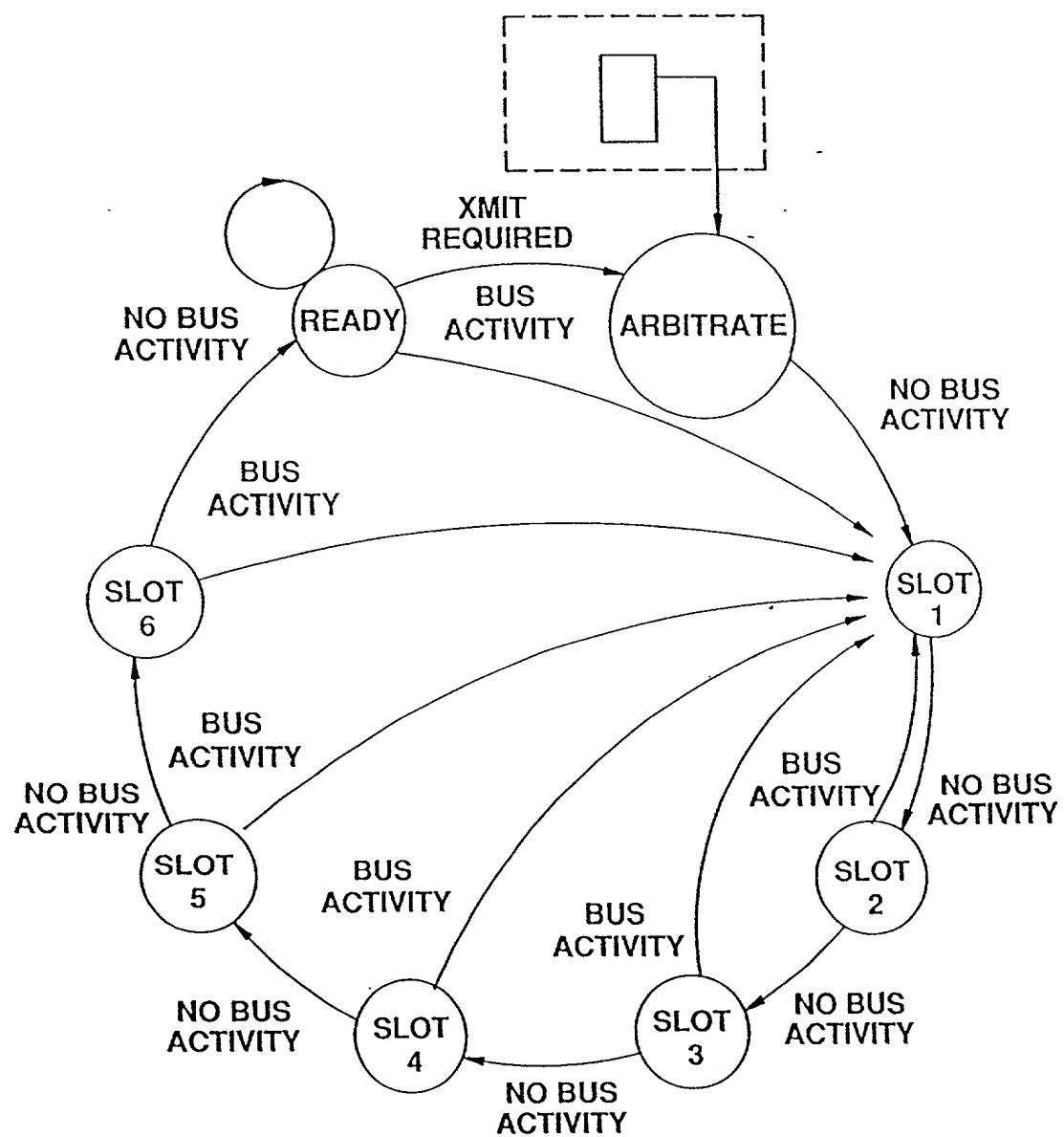


FIG. 63

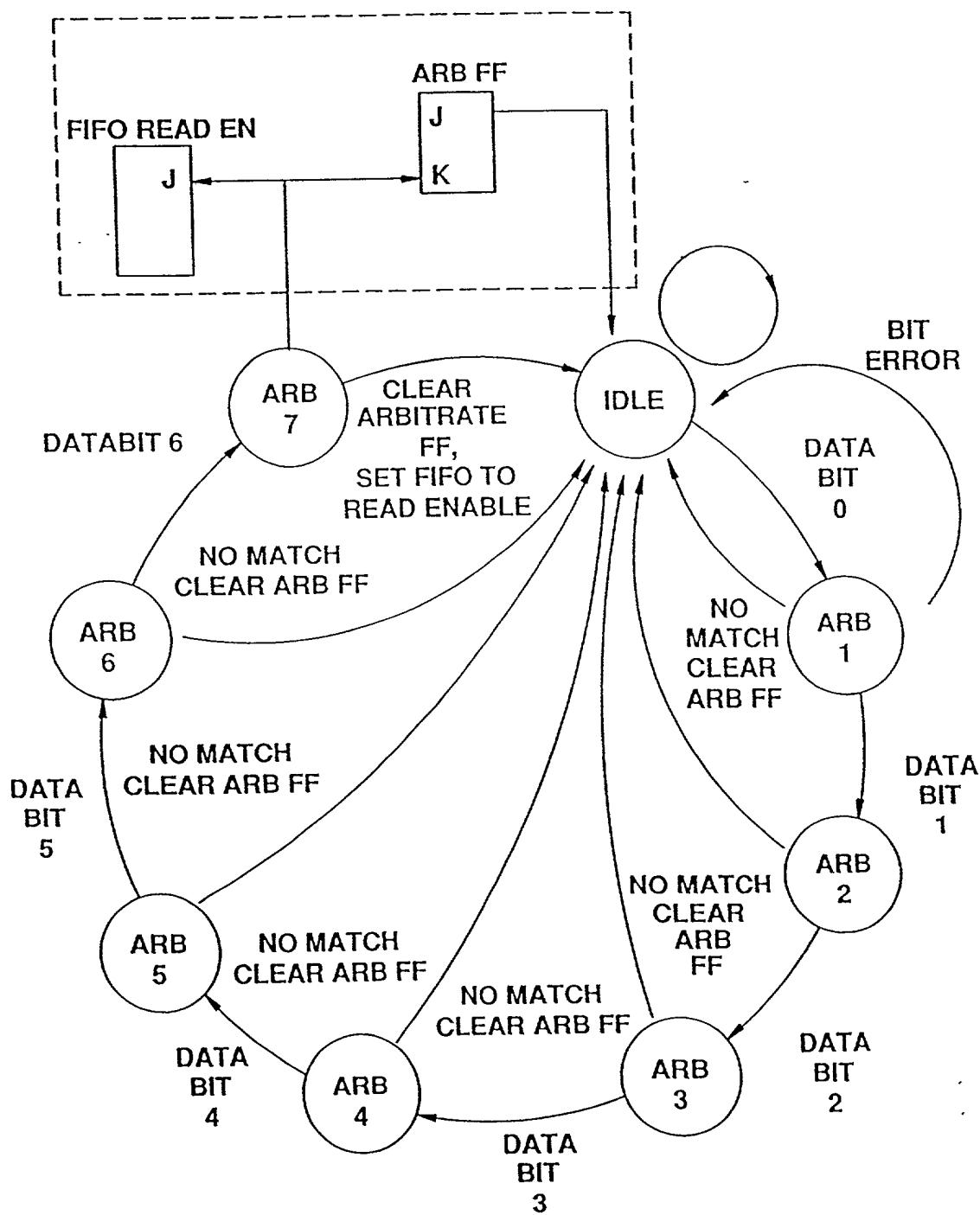


FIG. 64

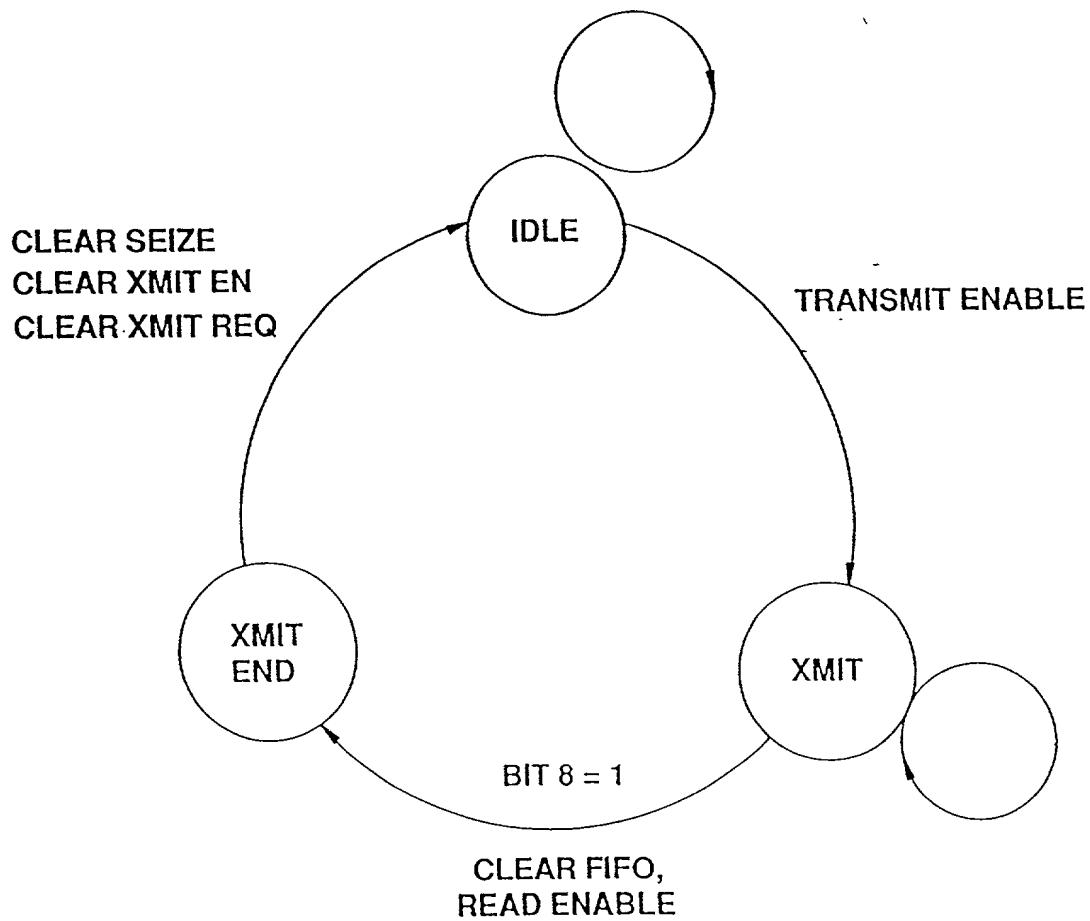


FIG. 65

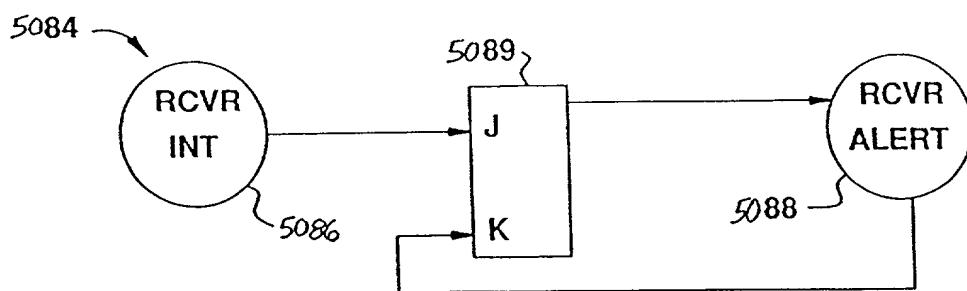


FIG.66

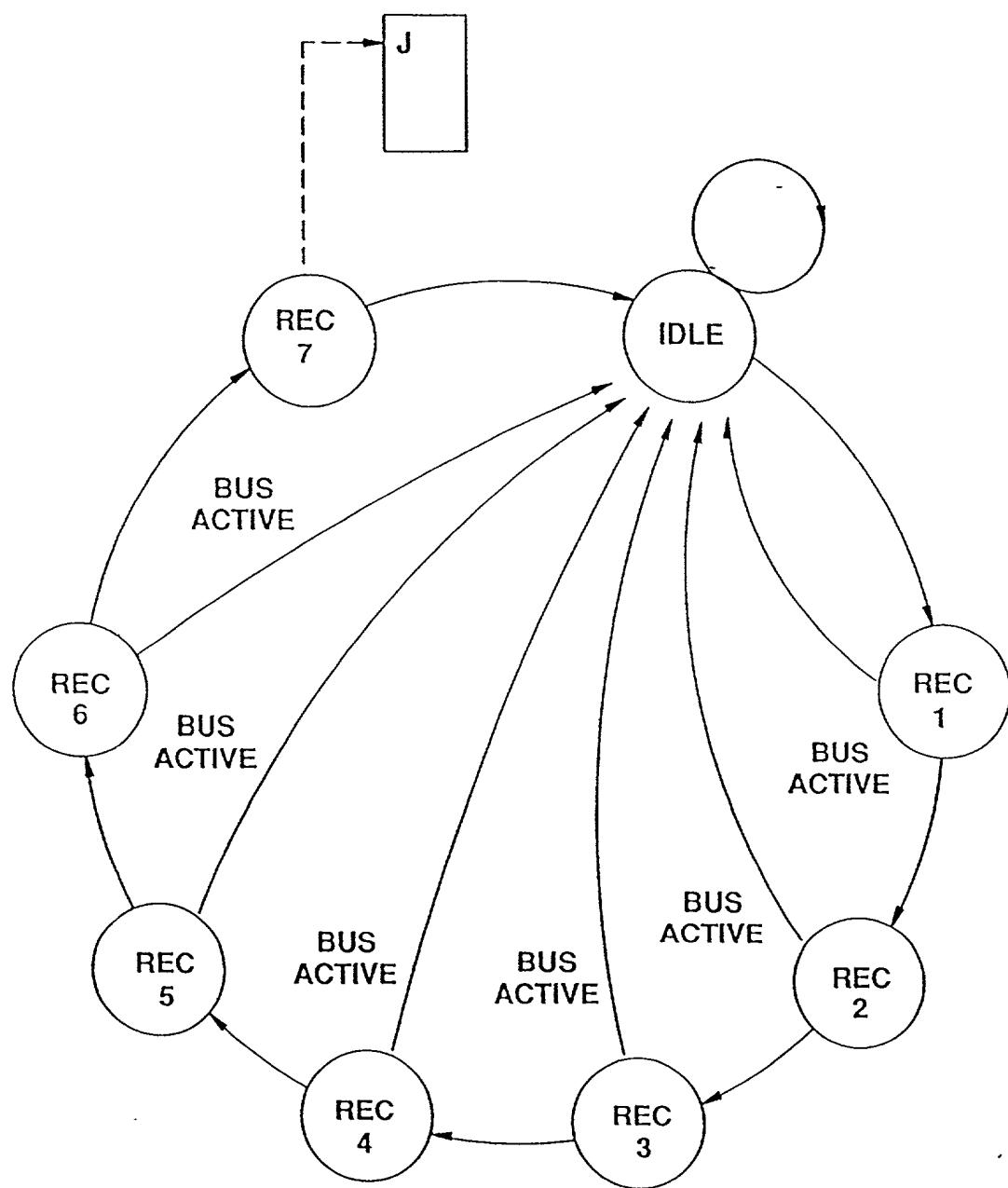


FIG. 67

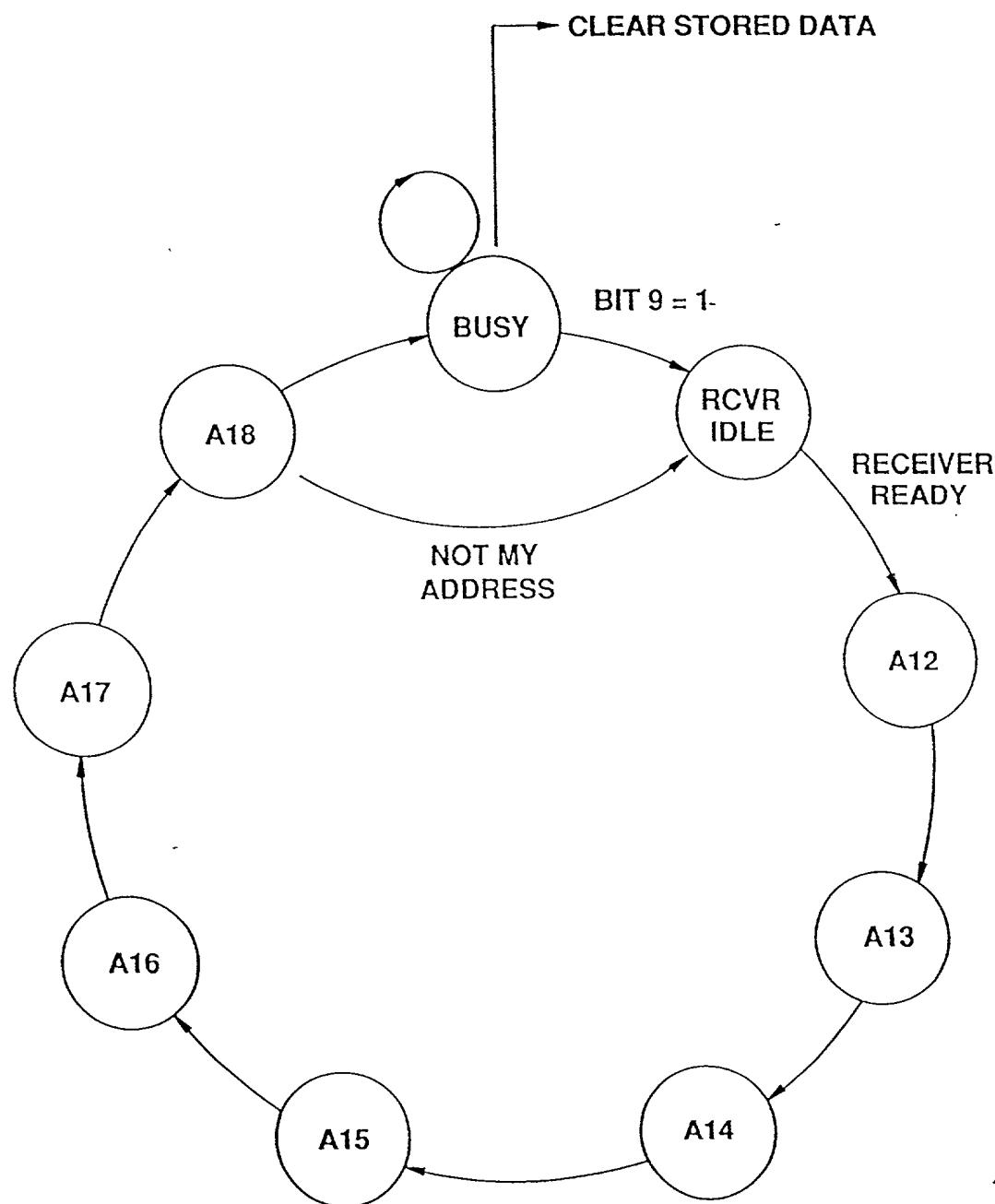


FIG. 68

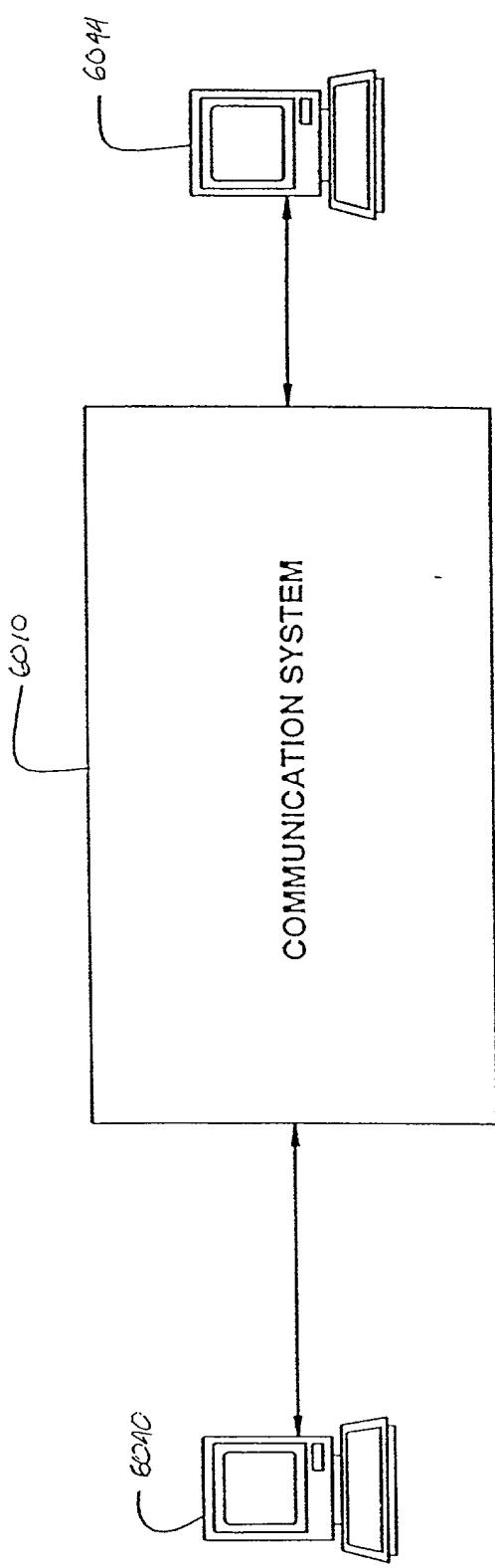


FIG. 69
PRIOR ART

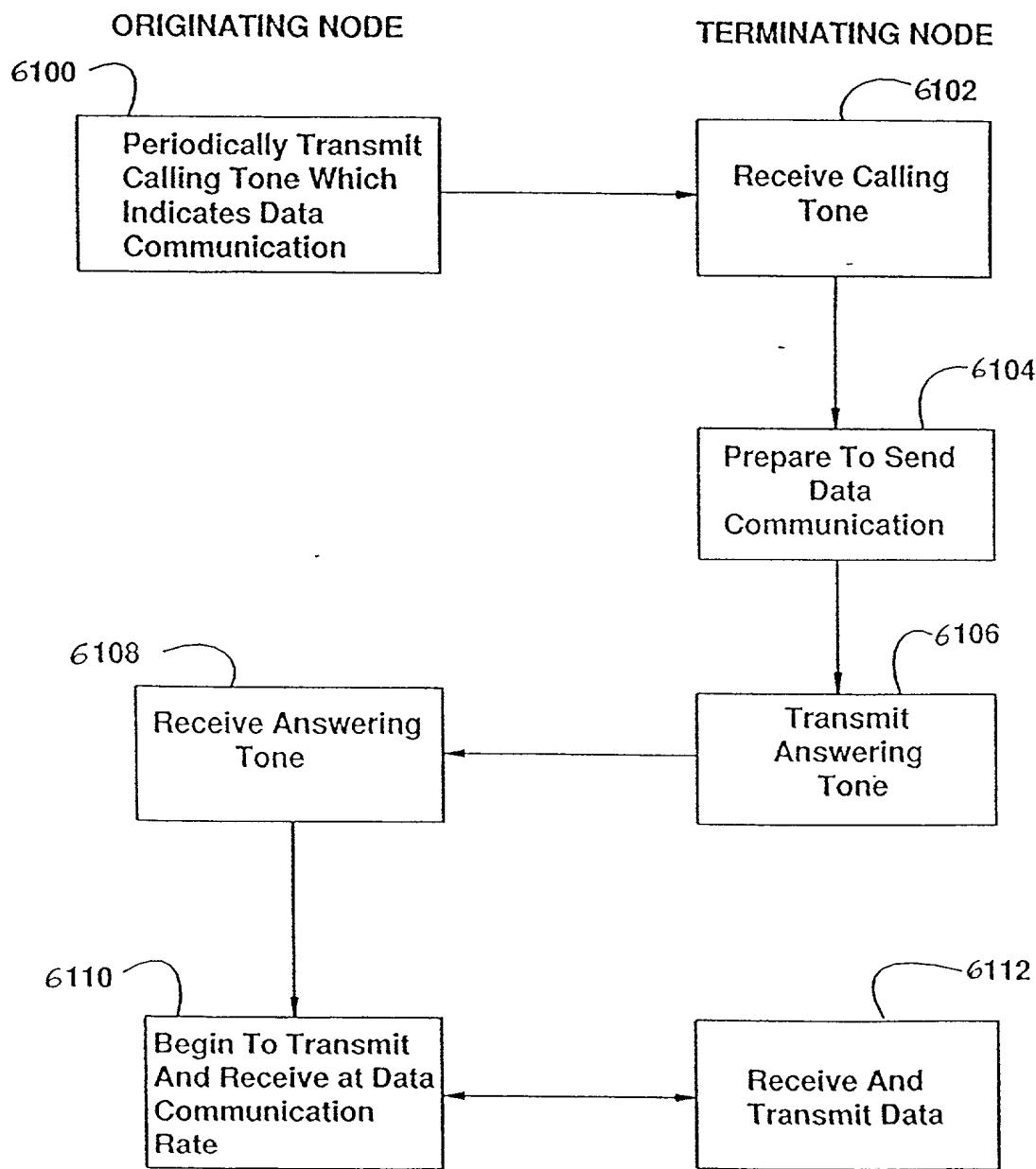


FIG. 70

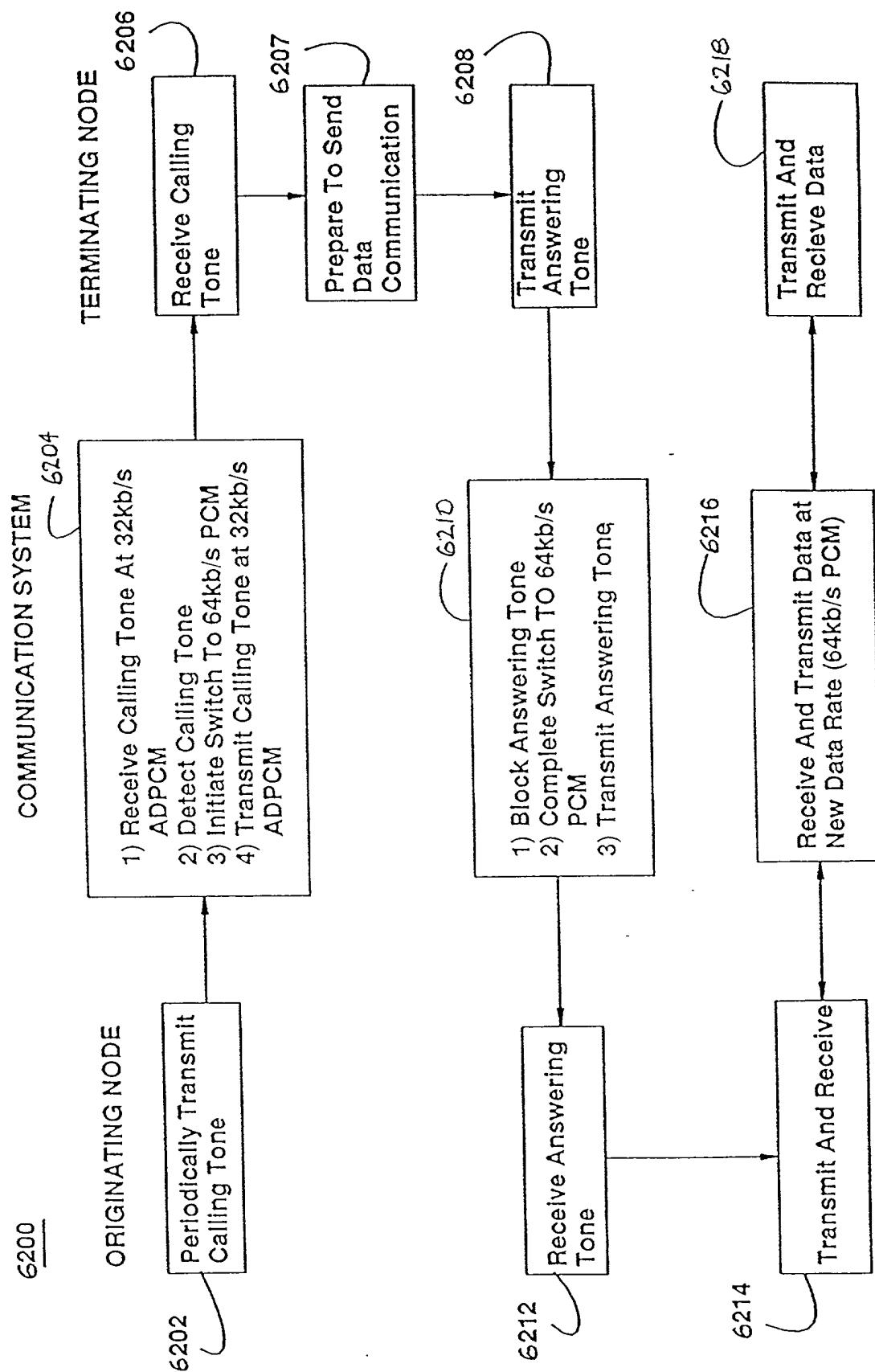
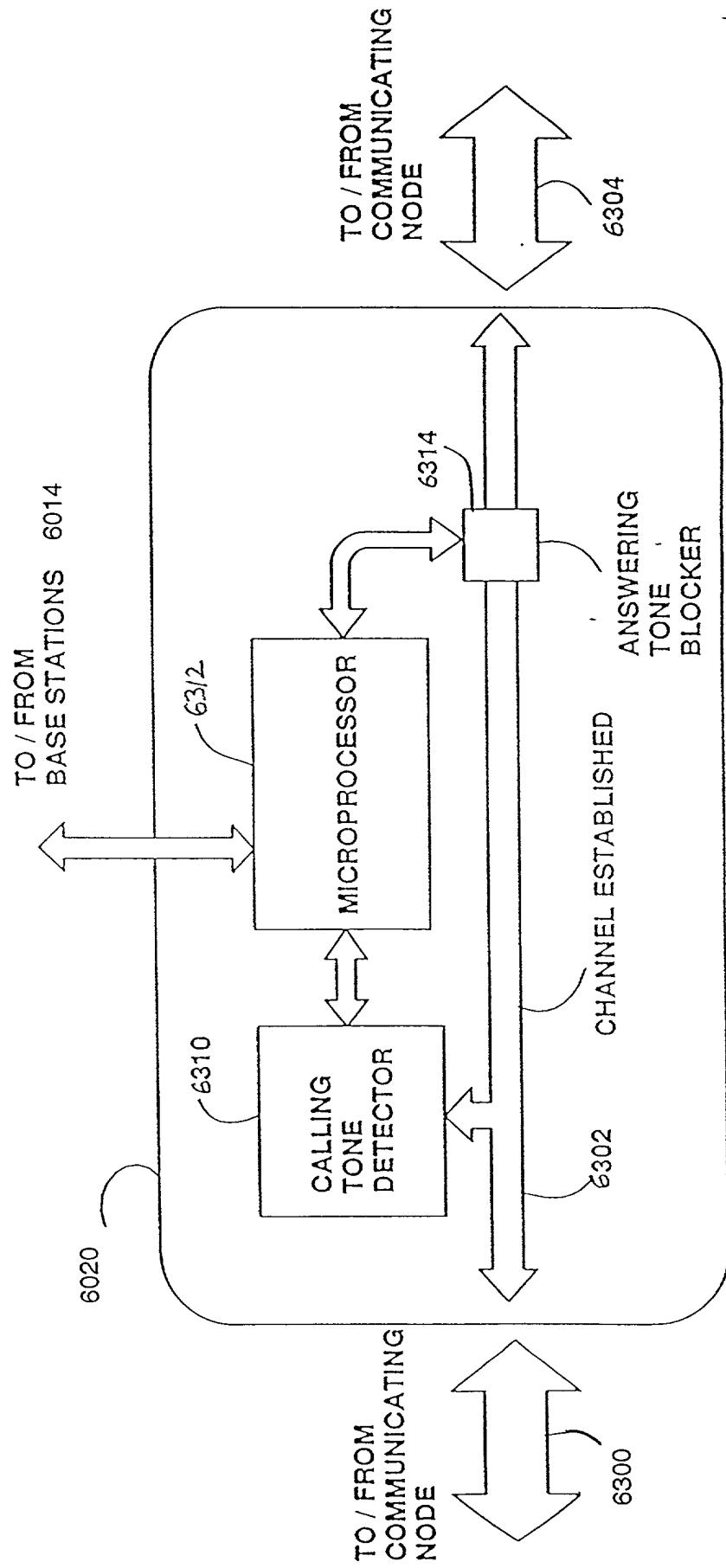


FIG. 71



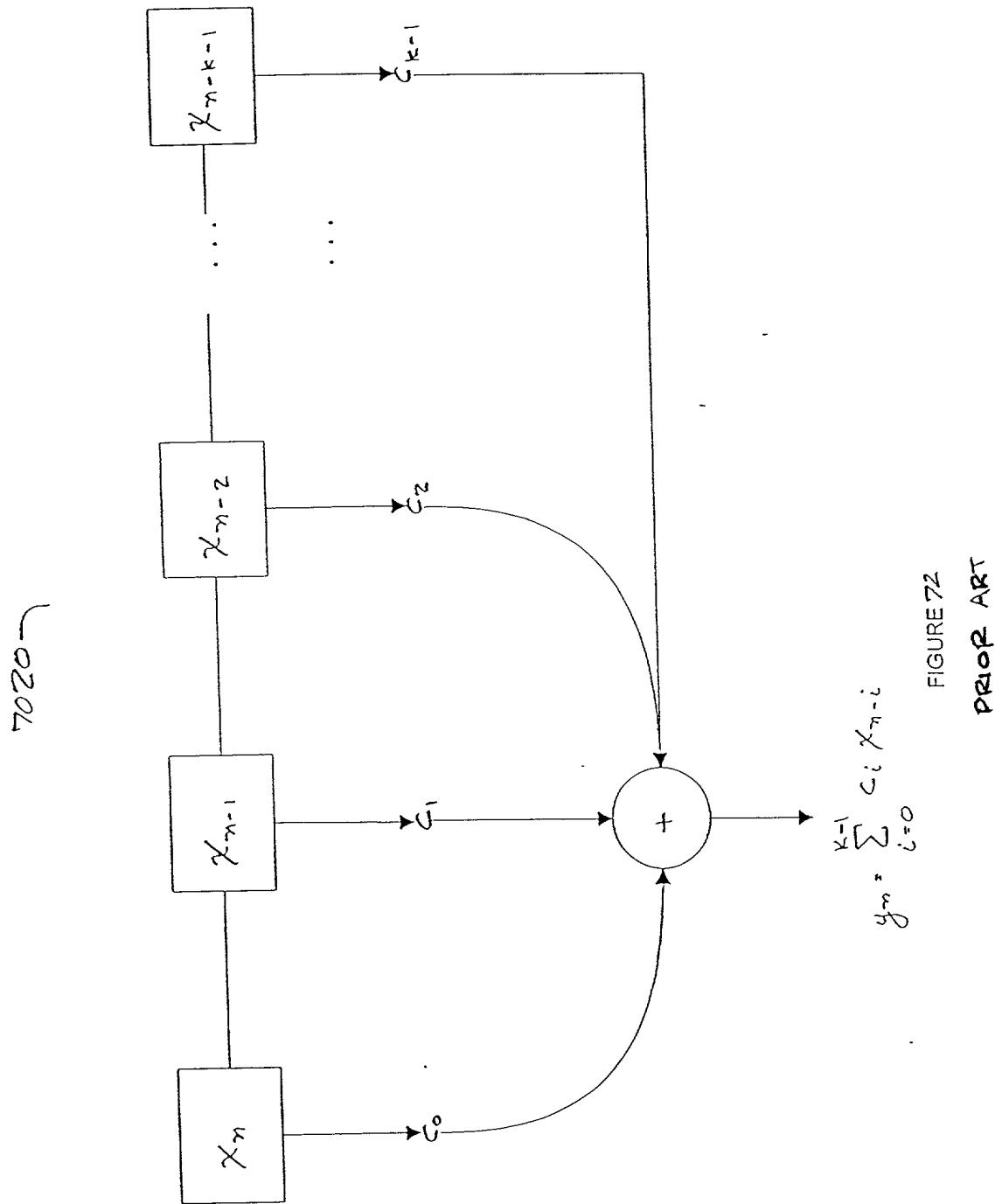


FIGURE 72

PROOF ART

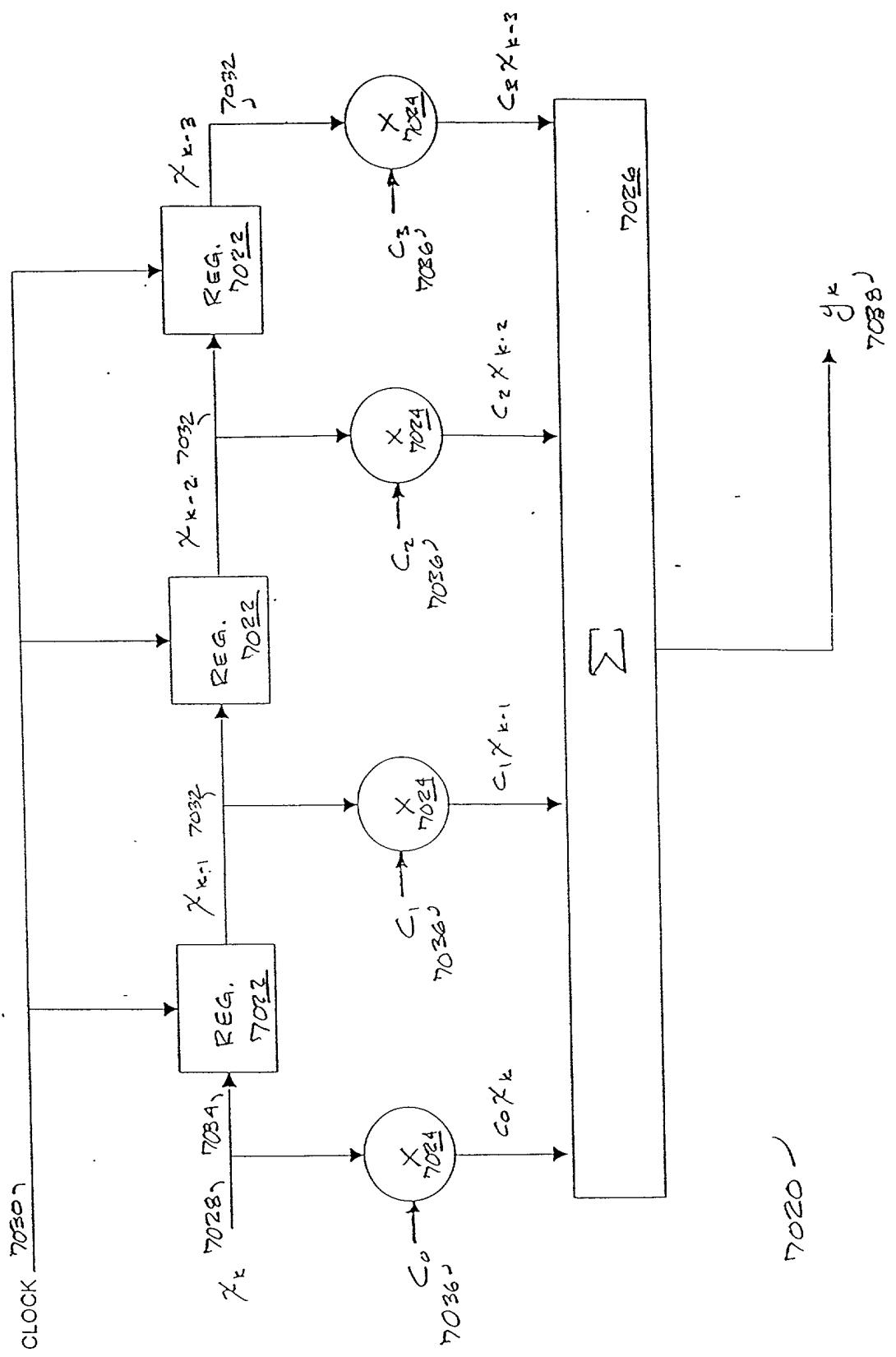


FIGURE 73
PROB AET

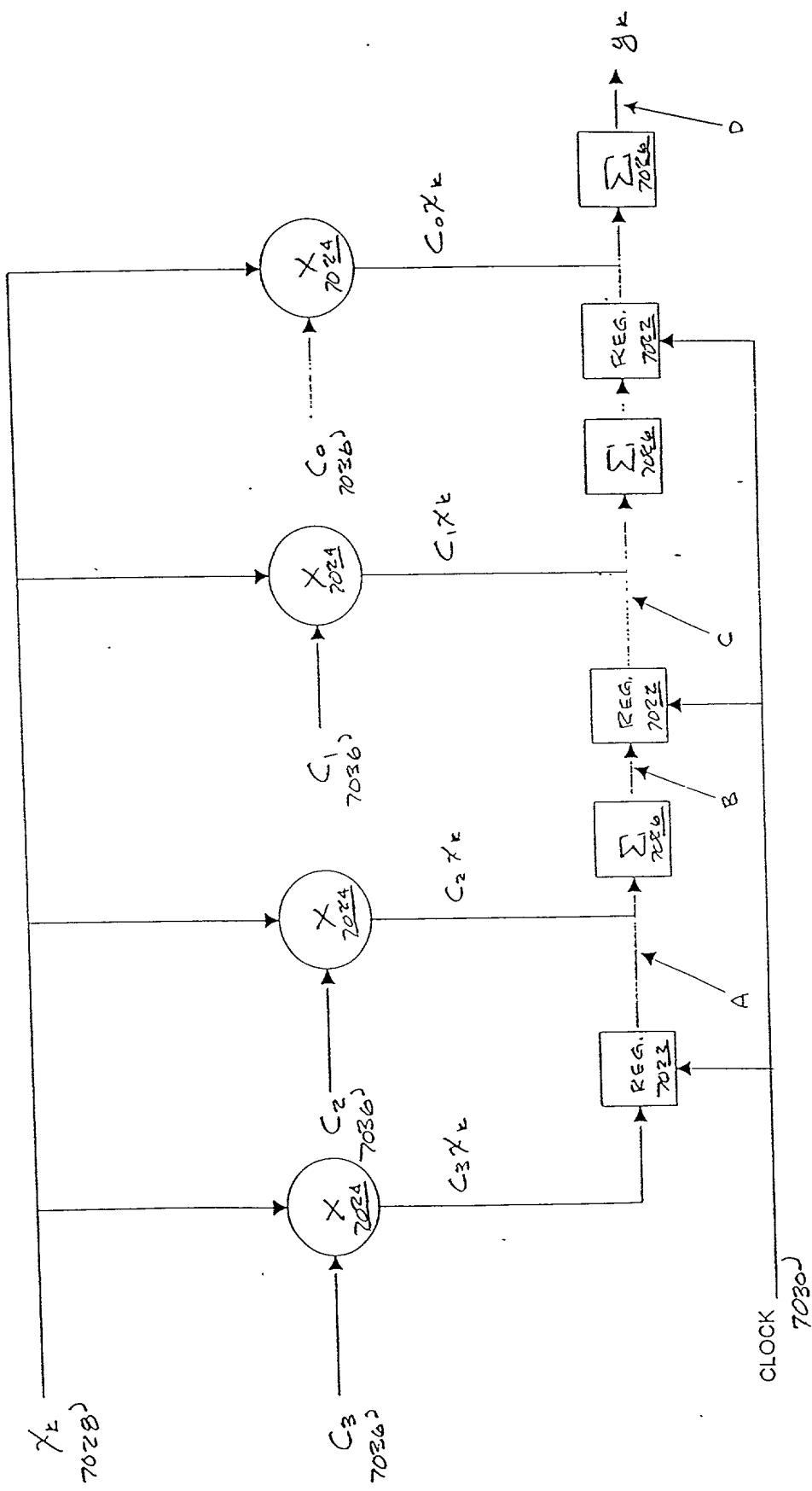


FIGURE 74
PRIOR ART

7040~

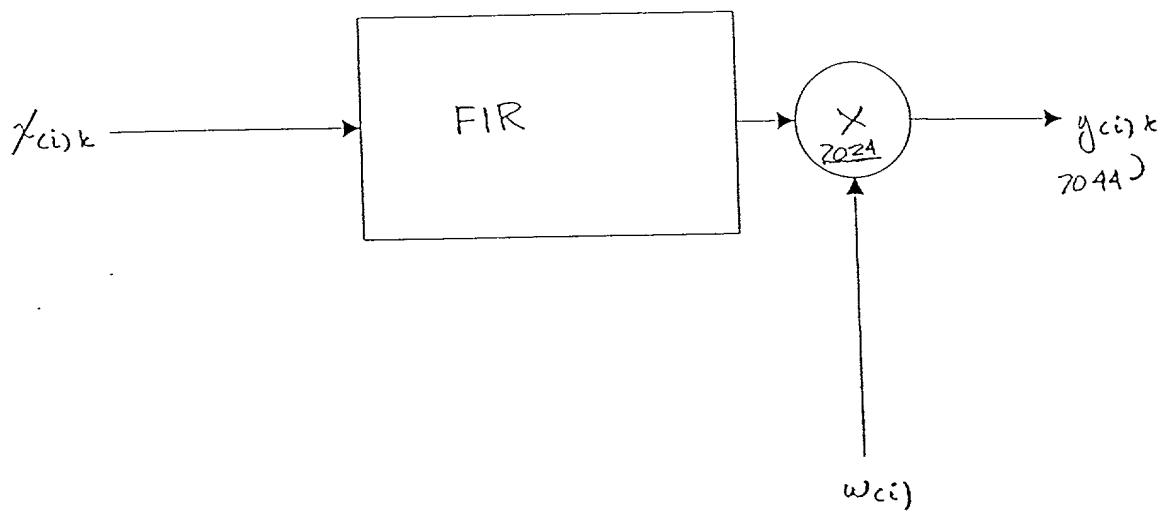


FIGURE 754

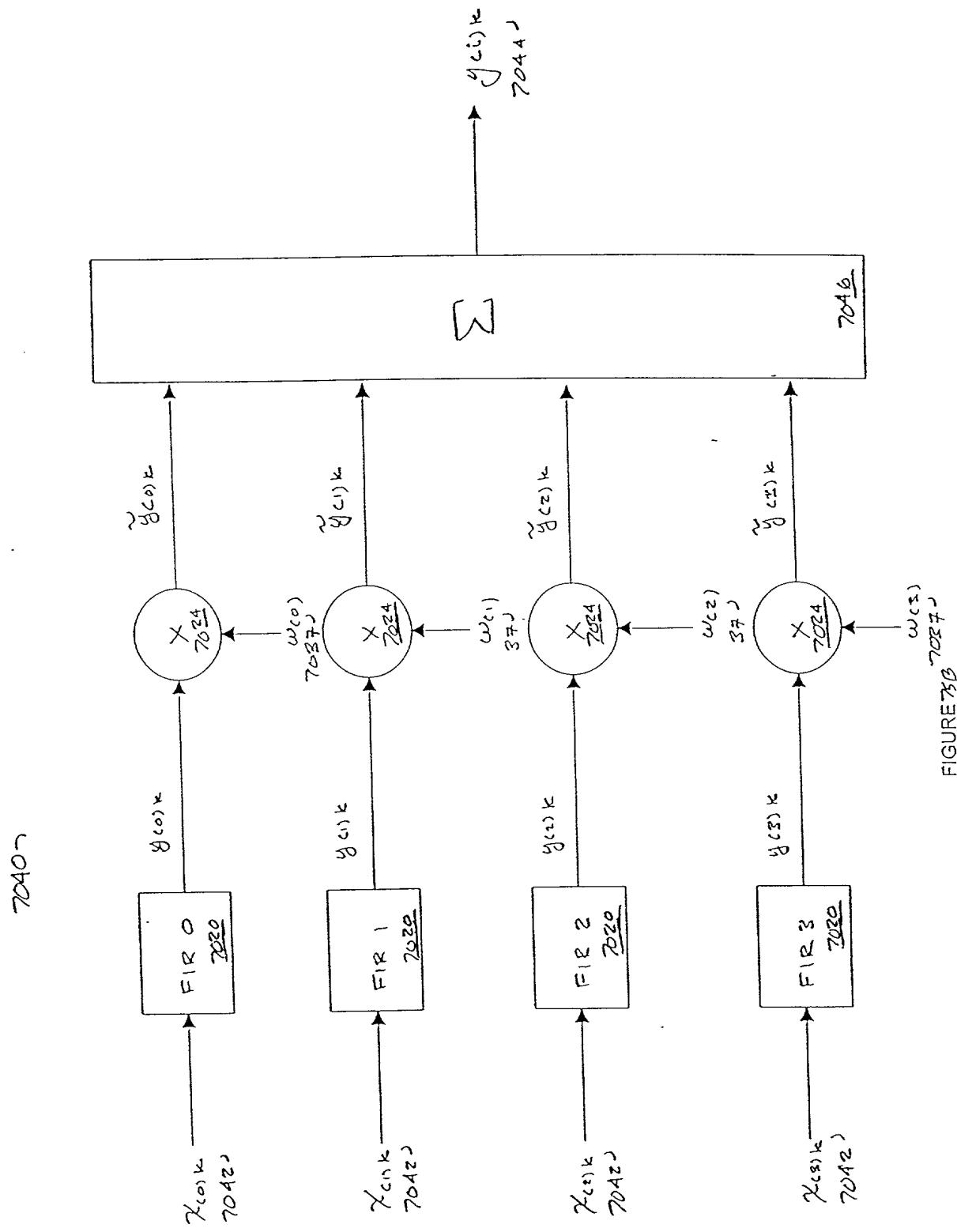


FIGURE 7037

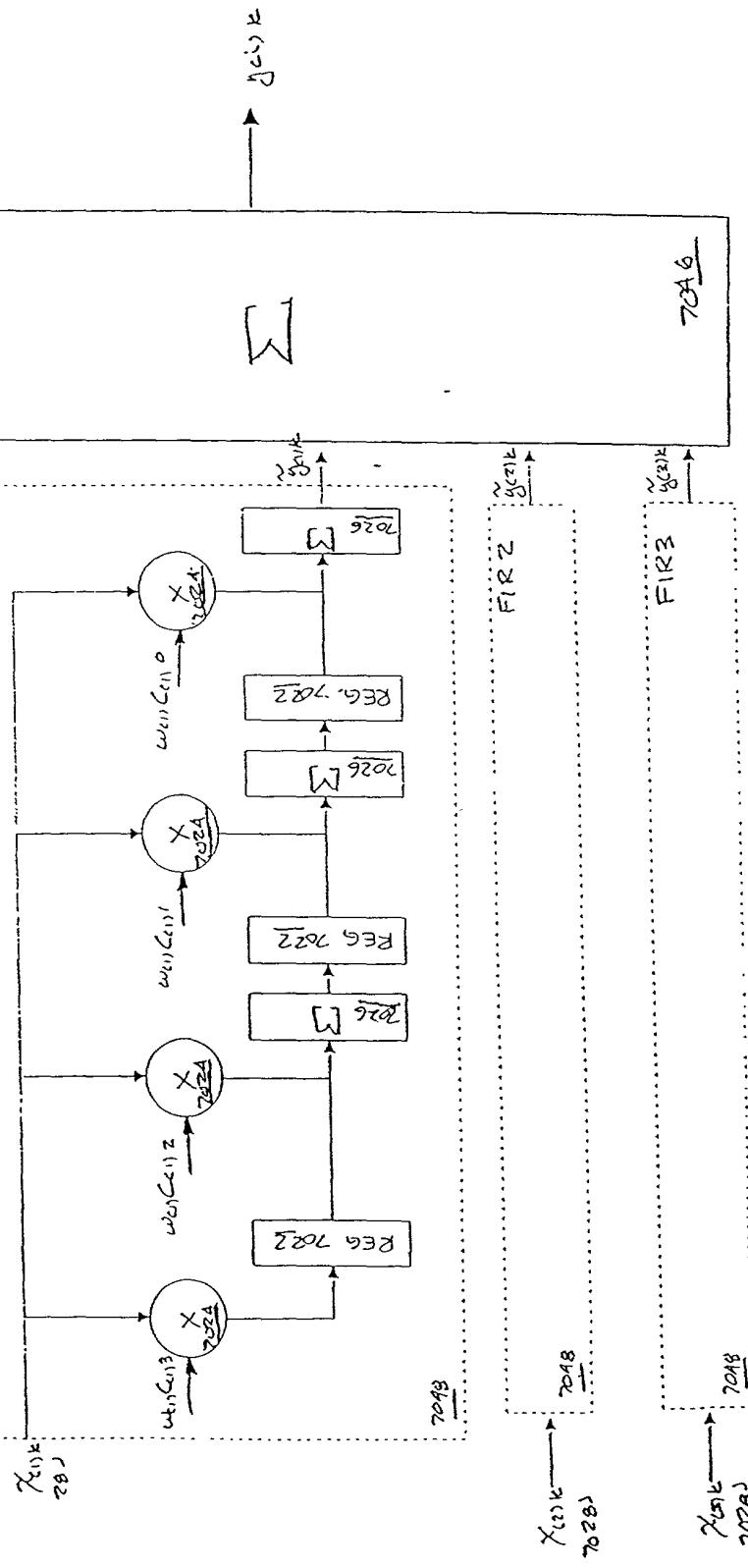
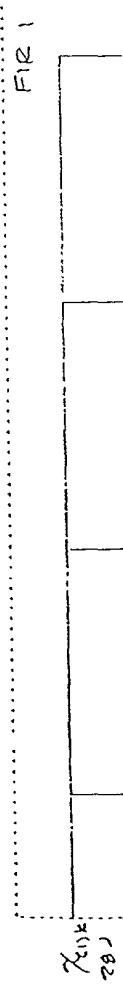
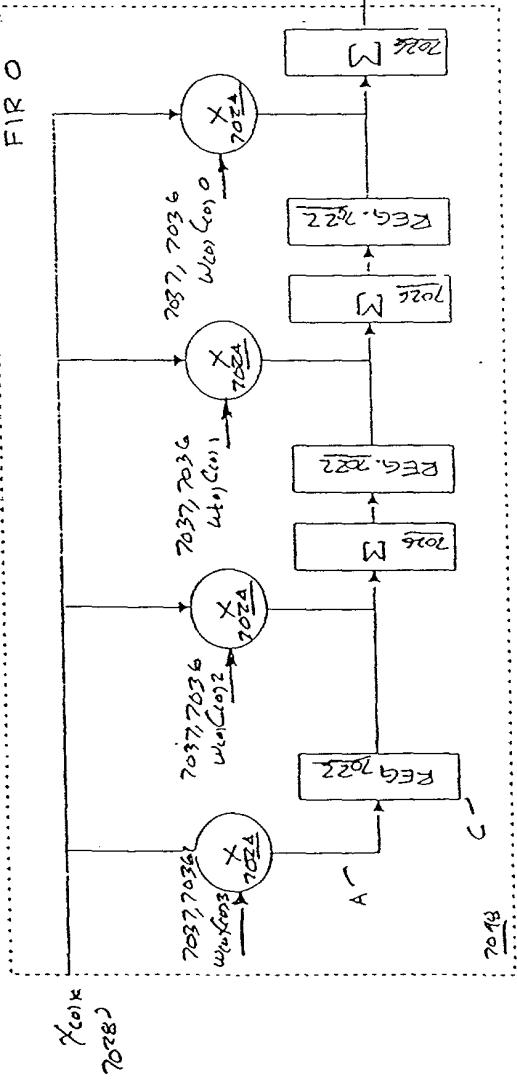


FIG. 76

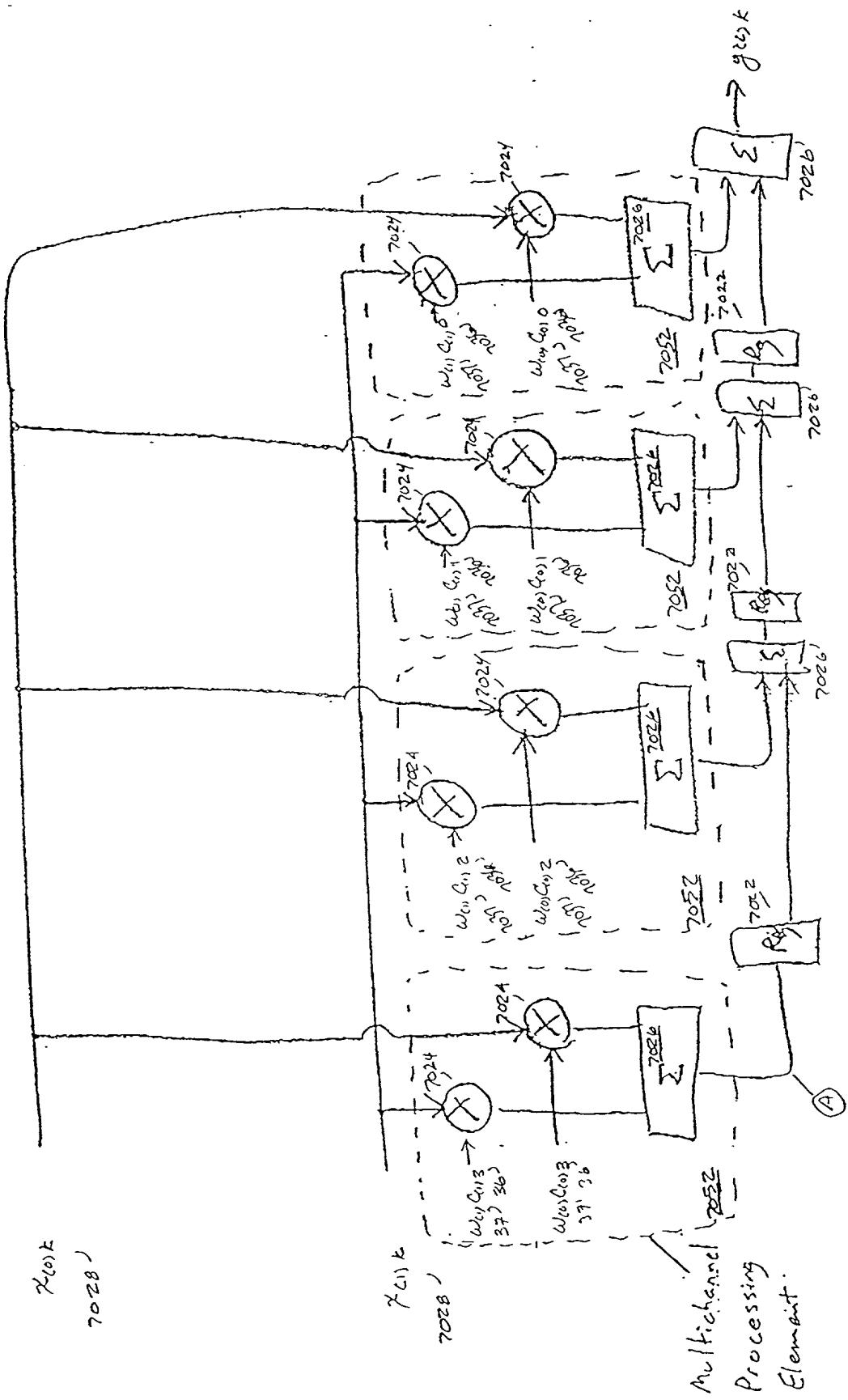


FIG. 77

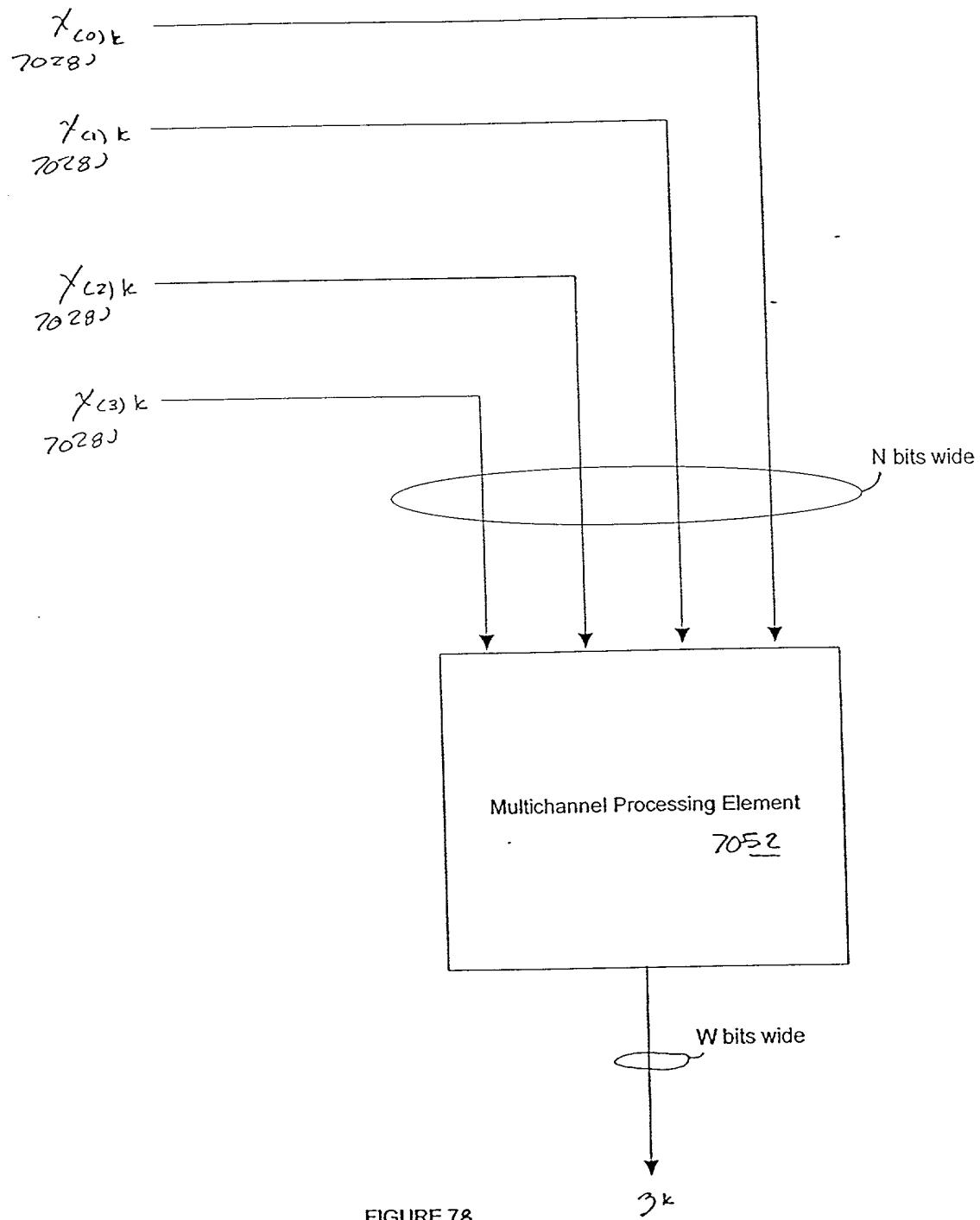


FIGURE 78

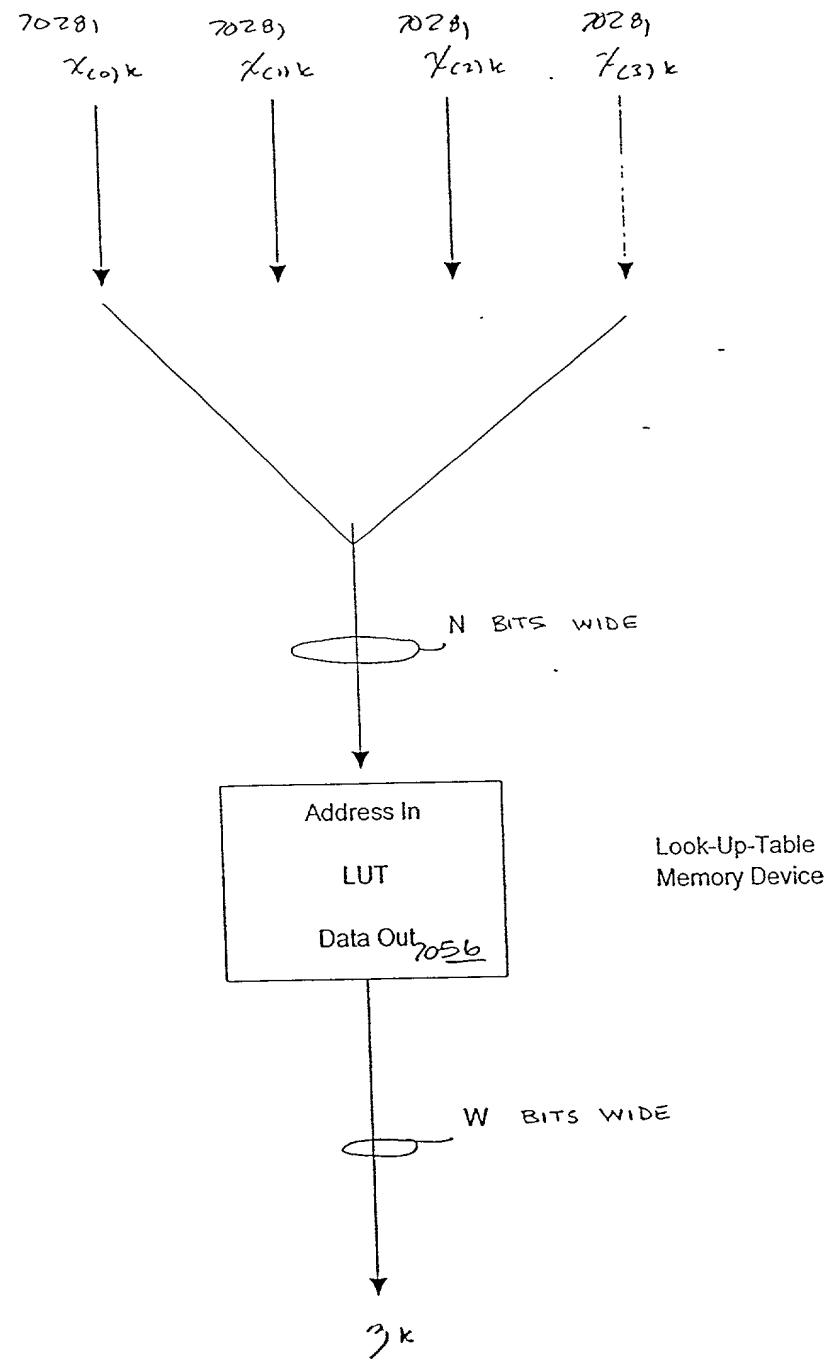


FIGURE 794

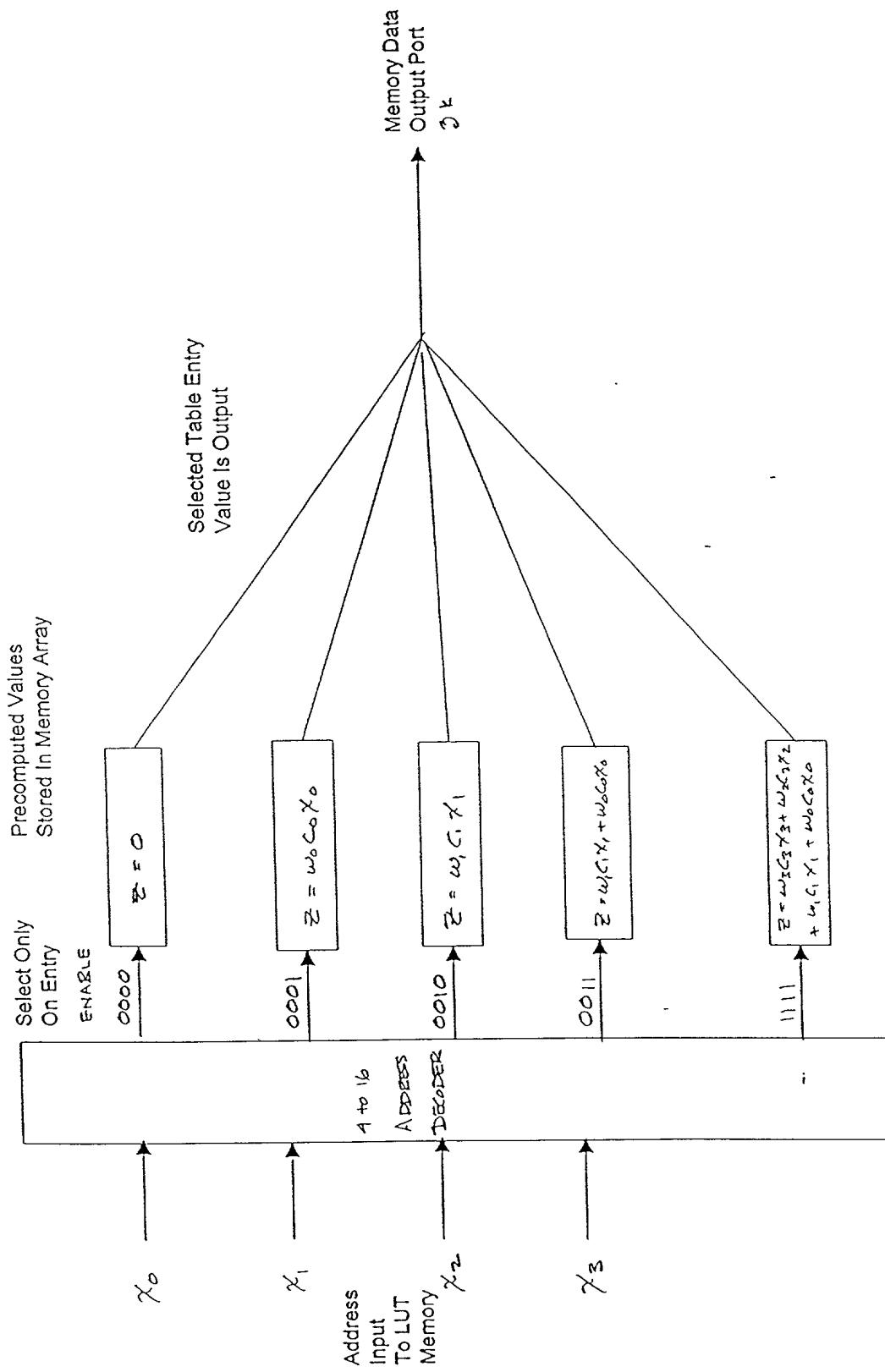


FIGURE 79B

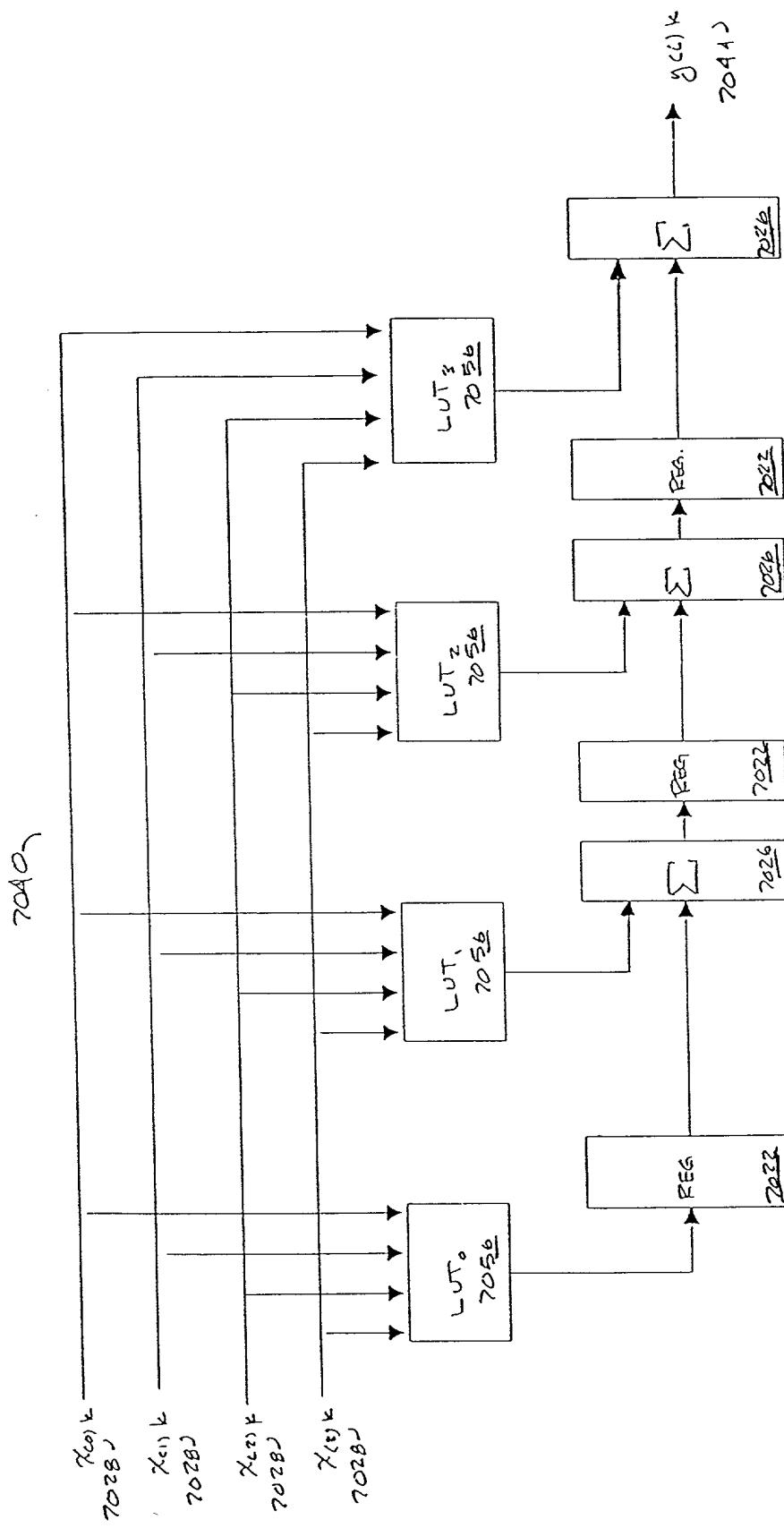


FIGURE 80